MOTOROLA

MTM800
TETRA摩托车对讲机
用户手册

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一般信息

安全信息

小心	*在使用此类产品之前，请阅读随机附带的产品安全与射频辐射小册子中关于安全使用对讲机的操作说明（摩托罗拉出版物部件编号 6866537D37，适于欧洲、中东和非洲；或 6804112J96/6804113J25，适于亚太地区）。*

这些附件仅限于能够满足 ICNIRP 射频能量辐射要求的职业应用。在使用此类产品之前，请仔细阅读随机附带的产品安全与射频辐射小册子中有关的射频能量信息和安全操作说明（摩托罗拉出版物部件编号安全信息小册子 6866537D37），以确保符合射频能量辐射限制标准。

请将本**用户手册**和**产品安全与射频辐射小册子**保存好，当附件转交给其他操作员时，可供他们参阅。

废弃处理信息

欧盟废弃电子电气设备 (WEEE) 指令要求销售到欧盟成员国的产品必须在产品上（有时是在包装上）张贴带交叉符的垃圾箱标签。根据 WEEE 指令的定义，此垃圾箱符号表示 EU 成员国的客户和终端用户不得将此电子电气设备作为生活垃圾处置。

欧盟成员国的客户或最终用户应联系当地的设备供应商代表或服务中心，以了解有关各国废物收集系统的信息。

版权信息

本手册所介绍的产品可能包括储存于半导体存储器或其它媒体中的有版权的电脑程序。美国和其他国家的法律保护摩托罗拉公司的某些有版权的电脑程序的专有权利，其中包括以任何形式拷贝或复制有版权的电脑程序的权利。因此，本手册所介绍的摩托罗拉产品所包含的任何有版权的摩托罗拉电脑程序，在未经摩托罗拉书面允许的情况下，不允许进行任何形式的拷贝、修改、反向工程或分发。除此之外，购买这些产品将不被认为拥有直接或暗示的版权人之版权、专利或

专利使用的任何许可证授权，产品销售过程中法律运用所引起的普通非专有性免税许可证除外。

产品规格信息

- 最大射频功率 3 瓦特
- 最大扬声器负载 10 瓦特 （4 欧姆）
- 天线阻抗 50 欧姆
- 环境温度范围 -30 °C 到 +60 °C

警告

当此对讲机工作时，其表面温度会上升到 70 °C。
请不要触摸发热表面

- **工作时间 连续 / 间歇**

注意

一般情况下，该对讲机的发射和接收时间 （工作周期时间）是由通讯系统决定的。在过载时，特别是在高于系统规格限定的高温环境下长期工作时，该对讲机将受其热量控制的保护，它将降低射频输出功率，因而减少对讲机的覆盖范围。

图标约定

本文档集可以为读者提供更多的直观提示。整个文档集中使用了以下图标，这些图标及它们各自的说明如下所述。

警告

带有相应安全图标的信号词 “警告”表示，如果不注意其中的信息，则可能导致死亡或严重的人身伤害和产品损坏。

小心

带安全图标的信号词 “小心”表示，如果不注意其中的信息，则可能导致轻伤或中度的伤害，或者严重的产品损坏。

小心

在无安全图标时，该信号词 “小心”可用于声明与本产品无关的潜在损坏或伤害。

注意

“注意”含有比周围文字更重要的信息，如例外或注意事项。它们通常为读者提供一些补充参考信息，提醒读者如何操作（例如当其不是当前过程的一部分时），或者告诉读者屏幕中某些项目的位置。“注意”没有相应的警告级别。

开始

恭喜您购买了摩托罗拉 MTM800。增强型 TETRA 的性能和最新的技术能够帮助您随时了解您的工作和保持与其他工作人员的联系。

您可以选择让 MTM800 使用英语、简体中文，繁体中文或您的运营商所限定的语言。工厂的缺省设置是用英语进行操作。更详细的信息请参阅第 70 页中的 “设置显示屏的工作语言”。

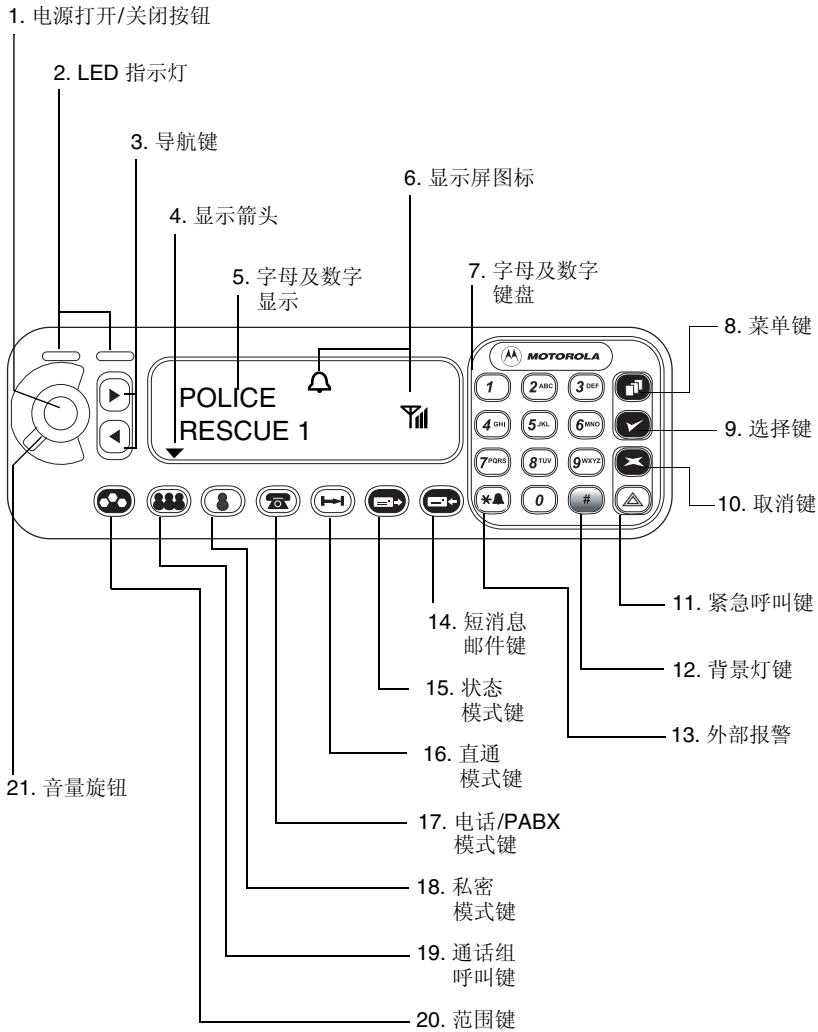
如何使用本手册

本手册描述了在出厂时设置并预编程好的 MTM800 功能特点。

您的运营商或您的机构或许已经将您的 MTM800 设置进行了定制，以满足您个人的最佳使用需求。请与您的运营商或机构联系以获得与本手册所述设置不同的信息。在本手册的描述中，您将发现以下的特殊注解，它们是用来突出某些信息和项目的：

举例	说明
	您所按下的按键将以一个按键符号来表示。
2 2	使用数字或字母按键作为快捷键以达到所需的子菜单。在本例中，依次按下 键，但不要同时按。
3✔话音	表示激活的设置。
状态信息 **已发送**	出现在 MTM800 显示屏上的信息是用特殊的印刷字体显示的。
注意	一个与本条目有关的补充注解。
6 <用户定义>	表明一则由你的运营商所设置的提示或消息。

控制键和指示灯


1. 电源打开/关闭按钮
2. LED 指示灯
3. 导航键
4. 显示箭头
5. 字母及数字显示
6. 显示屏图标
7. 字母及数字键盘
8. 菜单键
9. 选择键
10. 取消键
11. 紧急呼叫键
12. 背景灯键
13. 外部报警
14. 短消息邮件键
15. 状态模式键
16. 直通模式键
17. 电话/PABX模式键
18. 私密模式键
19. 通话组呼叫键
20. 范围键
21. 音量旋钮
POLICE
RESCUE 1
MOTOROLA

项目	说明
1	**打开/关闭按钮** 打开或关闭 MTM800。（请参阅第 8 页。）
2	**LED** 指示灯 显示工作状态 （请参阅第 8 页。）
3	**浏览按键** 按下可以在选项列表中向上或向下移动，例如在信息或电话号码簿列表中滚动。
4	**显示箭头** 如果有相关信息时，显示箭头会指向字母数字屏幕下面的按键，表示目前的模式。（请参阅第 11 页中的“MTM800 模式下的起始显示屏幕的例子”。）
5	字母和数字**显示屏** 背景灯可以照亮 2 行字符或数字。（每行最多 14 个字符或数字）。
6	显示屏**图标** 用来显示补充信息和 MTM800 状态。（请参阅第 6 页。）
7	字母和数字**键盘** 输入数字和字母。（请参阅第 12 页。）这些按键的功能由您的运营商进行设置。（请参阅第 15 页。）
8	**菜单键** 按下以弹出菜单选项。用浏览键来滚动。（请参阅第 11 页。）
9	**选择键** 按此键选择显示的选项或确认输入。
10	**取消键** 按此键取消/清除/退出当前活动或输入。
11	**紧急键** 触发紧急模式并发送紧急告警。（请参阅第 12 页。）
12	**背景灯按键** 使对讲机的背景灯变暗或变亮 （4 个强度选项）。（请参阅第 21 页。）
13	**外部报警键** 用来启动或关闭外部报警 （声光）。（请参阅第 22 页。）
14	**短消息邮件键** 选择操作的短消息邮件模式。（请参阅第 85 页。）

项目	说明
15	**状态模式键** 选择操作的发送状态模式。（请参阅第 84 页。）
16	**直通模式键** 进入/退出直通模式操作 (DMO)。（请参阅第 38 页。）
17	**电话模式键** 选择操作的电话/PABX 呼叫模式。（请参阅第 47 页。）
18	**个呼模式键** 选择操作的个呼模式。（请参阅第 42 页。）
19	**组呼键** 选择操作的组呼模式。（请参阅第 28 页。）
20	**范围键** 选择通话组范围 （选择通话组前使用）。（请参阅第 27 页。）
21	**音量旋钮** 调整音量。（请参阅第 22 页。）
	通话键 (PTT) 推动可以： • 发送一个组呼、个呼、电话/PABX 或紧急呼叫。 • 发送一条状态信息。

显示屏

显示屏图标列表

在您打开 MTM800 之后，在显示屏的上方将显示出各种图标，用以指示如下的情形：

图标	说明
	信号强度 (TMO) 可以让您更进一步处理一个呼叫之前先检查信号的强度。六个信号强度柱表示信号的强度最强。在信号较弱的地区，呼叫和信息可能无法有效接收。闪烁的天线表示对讲机未处于覆盖范围之内。这时请您移动到一个较好的信号覆盖地区然后再尝试发起呼叫。此天线图标在直通模式的组呼中不会显示。
	信号强度 (DMO) 表示一个呼入的直通模式组呼。

图标	说明
	直通模式 当对讲机进入直通模式时，图标将显示。
	DMO 网关 表示您选择通过网关工作。本图标有三个位置： **保持亮着 —** 当对讲机与网关同步时 （例如接收一个存在的有效信号时）。 **闪烁 —** 当对讲机不与网关同步或连接时。 **无图标 —** 在进行用户机到用户机和转发呼叫时。
	DMO 转发器 当在 DMO 中选择了转发器选项时显示。本图标有三个状态： **保持亮着 —** 当对讲机检测到转发器时 （例如接收一个存在的有效信号时）。 **闪烁 —** 当对讲机未检测到转发器，或者在连接时。 **无图标 —** 在进行用户机到用户机和网关呼叫时。
	接收到新短消息 表示您的邮箱有新短消息到达。
	外部报警 当您激活外部报警 （“声光”）时显示。
	有个呼进入 当有个呼进入时闪烁。当您接听、拒接或呼叫建立失败时此图标消失。
	电话呼叫 当接收到电话呼叫时闪烁。
	紧急呼叫 当 MTM800 工作于紧急模式时显示此图标。该图标闪烁时表示有紧急组呼进入。
	优先级扫描 （带优先级监测点） 表示扫描功能已被激活。
	数据已连接 当 MTM800 成功地与一台外设 （笔记本或台式电脑）相连接并已准备好传送数据时，图标将显示。 **接收/发送数据：**此图标表示正在进行数据传输。

长号码的显示

数字后面的三个小点表明短消息继续在下页（例如，在电话号码簿）。

如果您所拨的号码是一个很长的号码，当光标到达该行的终点时，每输入一位新号码，屏幕中显示的数字将向左移动一位。

显示长文本短消息

在文本短消息后面的箭头表示该短消息在下一页继续显示（例如读一条邮件短消息时）。按 (▶) 阅读下一页内容。

激光二极管状态指示灯

激光二极管指示灯能说明您的 MTM800 所处的工作状态。

指示灯	状态
绿色：保持亮着	正在使用
绿色：闪烁	在系统覆盖范围内
红色：保持亮着	不在系统覆盖范围内
红色：闪烁	对讲机在开机时正在连接网络/进入 DMO 模式
橙色：保持亮着	禁止传输 (TXI) 正在使用/在 DMO 中信道忙
先保持亮着，然后闪烁为橙色	有呼叫正在呼入
没有指示灯显示	关机状态

开机/关机

开机：

- 按“**开/关**”键。
- 如果 MTM800 使用点火传感器进行配置，则只要车辆点火此对讲机就会自动打开。

- 如果附件连接头连接到外部紧急开关，并且您的运营商激活了 “紧急唤醒”，则只要按紧急开关， MTM800 就会自动打开紧急模式 （请参阅第 50 页中的 “紧急模式”）。

屏幕中会出现一组图标和方块。（请参阅第 6 页中的 “显示屏图标列表”）之后，您的 MTM800 会进行自检和系统登记注册例行程序。当 MTM800 在系统上登记注册时，其屏幕中将显示额外的信息。

在成功的登记注册之后， MTM800 将进入工作状态。

关机：

- 再次按 “**开/关**”键。
- 如果该对讲机是通过点火器打开的，则它可以通过点火器关闭，或者按 “**开/关**”键将其关闭。

您将见到 “**关机**”信息。

注意 *当启动了对讲机的隐蔽模式时，打开和关闭对讲机都不会出现可见的和音频提示。（参阅第 20 页中的 “隐蔽模式”。）*

拆卸对讲机

小心

选项 1：
从对讲机断开 13.2V 主电源之前：
1 关闭对讲机。
2 松开对讲机关闭按键后等待最少 4 秒钟。
断开 13.2V 主电源。

选项 2：
不关闭对讲机，直接断开主电源。

解除 MTM800 锁定

您的 MTM800 在开机时有可能是锁住的。要解除锁定，请参阅第 66 页中的 “如何解锁 MTM800”。

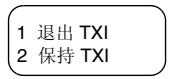
选择您的网络

在您开始操作 MTM800 之前，您可以选择 MTM800 希望的网络进行入网登记。详情请参阅第 75 页中的 “网络”。

禁止传输时开机

如果此对讲机是在禁止传输模式激活时被关闭的 （请参阅第 77 页中的 “设置禁止传输 (TXI) 模式”），则 TXI 模式将保持激活状态。

当您在 TXI 模式激活时打开此对讲机，您将被询问是否要退出 TXI 模式。



如果您要退出 TXI 模式 — 比如您已不在建议使用 TXI 模式功能的射频敏感地区，按 (1)。如果 MTM800 之前被使用在集群模式 (TMO) 下，它将入网登记。

如果您按下 (1)，而此对讲机之前被用在 TXI 模式和直通模式下，它将会退出 TXI 模式并保持在直通模式下。

如果此对讲机之前是处在集群模式，而且 TXI 模式是激活的，按下 (2ABC) 关闭对讲机。

如果您按下 (2ABC)，而此对讲机之前被用在 TXI 模式和直通模式下，它将会保持在 TXI 和直通模式下。

按键概述

模式键

当工作于集群模式 (TMO) 时， MTM800 有四个主要的呼叫模式：

- 通话组模式 — 发送和接收组呼。
- 个呼模式 — 发送和接收个呼模式呼叫。
- 电话模式 — 发送和接收电话呼叫。
- PABX 模式 — 发送和接收来自本地分机号码 （交换局）的呼叫。

注意 *PABX 模式只在您的运营商激活时显示。*

如果您的运营商将组呼模式设置为初始模式，则当 MTM800 处于其他操作模式或菜单状态下，并且在数秒之内没有任何操作时，它将会自动回到该初始模式。

组呼模式既可以工作于

- **集群模式操作 (TMO)**， MTM800 是在系统覆盖范围内的服务支持下工作的。
- **直通模式操作 (DMO)**， MTM800 不需要任何系统的支持。

注意 *当工作在 DMO 模式下时，信号传送直接从发射对讲机天线发送到接收对讲机天线，不需要任何基站或发射塔的支持。这样以来，有效范围主要取决于摩托车所处的位置。 TETRA 对讲机用户之间的任何障碍物 （山、楼房等）都会进一步缩小有效范围。反之，将摩托车开到另一位置或更高的位置则会扩大有效范围。*

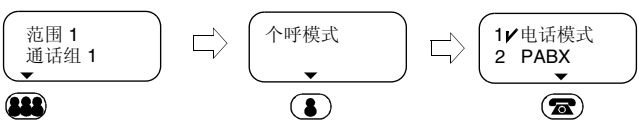
通过一个网关设备，处于 DMO 模式下的对讲机便可以与集群系统 （反之亦然）进行通信。要使用该功能，请启动对讲机的网关选项 （请参阅第 35 页中的 “选择网关/转发器”）。

注意 *在 DMO 模式中是可以发起组呼和紧急组呼的。*

按 (⊢⊣) 键进入直通模式操作。

当您的 MTM800 处于工作状态时，通话组模式、个呼模式、电话/PABX 模式缺省设定的起始显示与下面所示的屏幕显示相似：

MTM800 模式下的起始显示屏幕的例子



菜单键

您的 MTM800 包含菜单和子菜单。它们可以让您应用各种满足您需求的设置。

是一个选项列表。有些选项可以让您选择更深一层的选项列表，我们称之为子菜单。

以下的例子说明了如何检查并修改电话号码簿中可用的空闲存储空间✓。符号表示所选的选项。

菜单都是以分级结构进行管理的 （请参阅第 60 页中的 “菜单选项列表”），这样可以快速访问并能在选项间快速浏览。数字可以用作快捷键。在上面的例子中，您可以依次按 （不是同时按）**2 1 4** 进入第二层子菜单。有关使用字母或数字键的详情，请参阅下面的 “按键”。

如果具体的子菜单中含有两个以上的选项，则初始屏幕中会出现最后的选项，这样您就可以知道有多少个选项可以使用。

紧急键

您可以在任何模式下按 键进入紧急模式，这样您就可以发送紧急告警和发起紧急组呼。

注意 *在集群模式和直通模式下，“紧急模式”都可以操作。紧急告警仅是集群操作的其中一个功能而已。紧急告警会被发送给调度员（如果您的运营商进行了设置）。*

注意 *您按紧急键所需的缺省设置时间是 0.5 秒。该时段可以由您的运营商为您设置。*

不过，当 MTM800 被个人身份密码锁定时，您还是可以接收或传输紧急呼叫的。

字母和数字键盘

使用键盘拨号，将号码输入号码簿，创建 SDS （短数据服务）短消息或单键拨号。

输入号码

要进入号码簿，按相应的数字键。

输入文本 （字母和数字）

要在号码簿中输入别名文本，或者在短消息中输入文本，按标有所需字符的按键，第一个字符按一次，第二个字符按两次，以此类推。按键带有更多的字符 （请参阅第 13 页）。

有关别名文本的更多信息，请参阅下面一章。

编辑文本

要 ...	操作
将光标向右移动一个字符	按 ▶、按一个新键、或稍候
将光标从文本结尾移动到开头	按住 ▶
将光标向左移动一个字符	按 ◀
删除光标所在位置左侧的字符	按 ✕
删除全部文本	按住 ✕
快速编辑	按 ✕

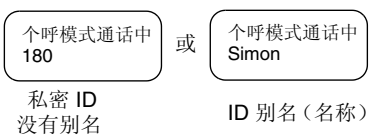
别名 （名称）

别名是一个您为存储的电话和个人号码 （或身份码）而指配的选用名称。

别名可以由 14 个字符组成，并可以由字母、数字和空格构成。

当在存储器列表中滚动时，别名就会被显示。别名也用来从您的存储器列表中找出您想要的号码。

以下屏幕显示如何将呼叫方的个呼模式呼叫号码显示出来：



可用字符

按相应的按键以显示下表中列出的字符。

每个按键的上面一行显示大写字符，下面一行则显示小写字符。

按住 # 在大写和小写之间进行切换。

可用字符列表：

键	字母和数字
1	. , ? ! 0 1 @ ' " - ( ) / : _ ; + & % × * = < > € £ $ ¥ ¤ [ ] { } \ ~ ^ ¿ ¡ § #
2 ABC	A B C 2 Ä À Â Æ Ç a b c 2 ä à â æ ç
3 DEF	D E F 3 È É Ë Ê d e f 3 è é ë ê
4 GHI	G H I 4 Î Ï Ì g h i 4 î ï ì
5 JKL	J K L 5 j k l 5
6 MNO	M N O 6 Ö Ô Ò Ñ m n o 6 ö ô ò ñ
7 PQRS	P Q R S 7 p q r s 7
8 TUV	T U V 8 Ü Ù Û Ú t u v 8 ü ù û ú
9 WXYZ	W X Y Z 9 w x y z 9
*	空格 * / %
0	0 + -
#	# = < >

编程键

MTM800 支持单键的功能可让您选择/激活常用的功能。您只要按住数字键即可激活单键功能。您的运营商应按照相关的功能编程数字键。所有键盘上的数字键都可以编程的。以下的图表列出可编程的功能及其在 MTM800 指定状态/模式中的可用性。有关功能的详细信息，请参阅用户手册中相关的部分：

部件	说明
通话组切换	切换到指定的通话组
通话组扫描	激活或关闭通话组扫描功能 （仅在 TMO 模式）
状态信息	向一个指定的地址发送指定状态信息 （仅在 TMO 模式）
扬声器开/关	将话音送往头戴式送受话器或外部扬声器
拨号呼叫 （个呼模式呼叫，电话呼叫， PABX）	向号码簿中的一个预定条目发起呼叫 （仅在 TMO 模式）
禁止传输 (TXI)	在激活及关闭 TXI 模式之间来回切换
隐蔽模式	打开/关闭隐蔽模式

注意 *如果单键功能被激活，单键拨号将无效 （请参阅第 48 页）。*

要使用单键功能：

- 无论在任何模式下，只要按住所需的数字键数秒钟即可。
- 您的 MTM800 将会显示号码或功能名称，然后根据所编程的功能进行操作。

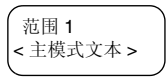
单键个呼功能需由运营商进行设置。

1. 如果设置为 “**单工**”，则呼出的个呼也为单工呼叫。
2. 如果设置为 “**双工**”，则呼出的个呼在 TMO 模式下为双工呼叫，而在带有上一个组呼发起人号码的 DMO 模式下则为单工呼叫。
3. 如果设置为 “**双工**”，则呼出的个呼在 TMO 模式下为双工呼叫，并且当需要电话号码簿索引时，无法在 DMO 模式下发起呼叫。

初始模式显示

您的 MTM800 还提供了一项功能，即运营商可以向您的 MTM800 显示屏发送特别文本短消息。

当您的 MTM800 未激活时显示此短消息。



该短消息将一直保留在您的 MTM800 屏幕中，直到接收到一条新的短消息。

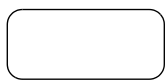
如果您的运营商已做了设置，您的 MTM800 将显示一个内部的初始模式内容，直到它收到另外一条短消息为止。

关闭/激活对讲机

您的 MTM800 提供了一项功能，即运营商可以暂时性的（被盗或丢失时）将它关闭。

当您的 MTM800 被关闭期间，它不能发起/接收任何呼叫。

当您的 MTM800 被关闭时，它将显示一个如下所示的空屏幕。



您的 MTM800 看上去就像被关机一样。

如果当您的 MTM800 已经被关闭，而您想试着打开它时，屏幕将如上图所示。

如果您找回了丢失的 MTM800，运营商可以再次激活它。在您的 MTM800 再次被激活之后，您就可以正常使用了。

对讲机永久禁用

您的 MTM800 具有一项功能，即运营商可以暂时性的 （被偷或丢失时）将它关闭。 MTM800 被永久禁用后将不能工作。

永久禁用后，您的运营商不能重新启用 MTM800。

建议只在不准备恢复对讲机的前提下禁用您的 MTM800。

发起呼叫

您可以在您所处的模式下根据需要发起呼叫：

- 按 发起呼叫，按 结束呼叫。
- 通话时按住 **PTT** 键，接听时释放 **PTT** 键。

要拨打一个号码发起一个呼出呼叫，进入需要的模式 （群组、个呼、电话或 PABX）并使用后续页面中介绍的方法之一。

有关指定模式拨号方法的详情，请参阅此手册中相应的模式选择。

由于同一号码可以供不同用户 （如果进行了配置）在不同的模式中使用，因此在通过键盘输入号码时请从正确的模式发起呼叫。在拨打号码时按 或 会将输入的号码切换到下一模式。

VOX 控制

VOX （声控传输）允许用户在免提模式下发送话音。使用手持式麦克风进行全双工个呼和电话呼叫时，该功能会自动检测音频。

注意 *此功能只有当运营商为您设置后才能使用。如果将其禁用，按 PTT 后可以发送话音。*

接收呼叫

MTM800 可以自动切换到呼入呼叫的模式。呼入结束后，显示屏将自动返回呼叫呼入前的模式。

注意 *在个呼、电话和 PABX 模式下接收到非紧急 TMO 或 DMO 组呼时，MTM800 保留当前模式。您可以听到呼叫，而显示保持不变。*

根据您在 “提示音” 菜单选项 （请参阅第 73 页）中选择的设置，您的 MTM800 会在有呼叫呼入时提示您。

在编辑短消息的过程中，如果您的运营商进行了配置，则当有组呼/紧急组呼/广播组呼呼入时，该对讲机会对您进行提示。

占用繁忙用户优先权 (BUP)

注意 *此功能只有在您的运营商为您设置后才能使用。*

系统中的控制台操作员可能希望在您有有呼入 （个呼、电话呼叫、PABX）时呼叫您 . 控制台操作员会启动 BUP 功能中断并强占您的呼叫。

注意 *BUP 也可以强占正在建立的呼叫。建立的呼叫必须是个呼模式呼叫，电话呼叫或 PABX 呼叫。*

在成功的发出优先权呼叫之后的一段限定的时间内，控制台操作员将设法呼叫您并建立一个个呼模式呼叫。

注意 *仅有在成功的强占呼叫之后的一段预置时间内 （当处在 BUP 等候状态时），才可发出紧急呼叫。*

先占式呼叫 (PPC)

先占式优先权呼叫功能特别有用，尤其是在您迫切需要和一个用户通话，而该用户的对讲机处于繁忙状态，正在进行一个非紧急呼叫时。

先占式优先权呼叫 (PPC) 是一个紧急组呼或是一个私密 PPC（半双工或全双工呼叫）。

此功能让您可以打断正在与对方通话但优先级较低的呼叫，并将您连接到较高优先级的呼叫。

运营商会设置 PPC 的优先级。其最高的优先级是紧急优先级。

要发起一个 PPC，请参阅用户手册中的紧急模式和个呼模式部分。

MTM800 是否会通过扬声器或是手机听筒接听呼叫，将取决于接收到 PPC 时此对讲机的设置。

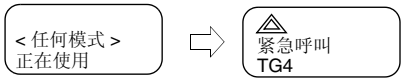
注意 *有关呼叫提示的信息，请参阅 “提示音” 菜单选项中的设置（第 73 页）。*

接收 PPC 的说明如以下段落所述。

在以下的屏幕中，“<正在使用> 任何模式”表示任何一种非紧急性质的话音呼叫：组呼，个呼，电话呼叫或 PABX 呼叫。

通话进行时接收到一个紧急组呼

MTM800 接收紧急组呼，打断正在进行的非紧急性质话音呼叫，然后连接到紧急组呼。



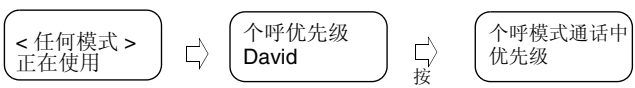
通话进行时接收到一个私密 PPC 呼叫

如果您的运营商已经设置好，当 MTM800 接收到 PPC 呼叫时，它会打断正在进行但非紧急性质且优先级较低的话音呼叫，然后连接到较高优先级的个呼模式呼叫。

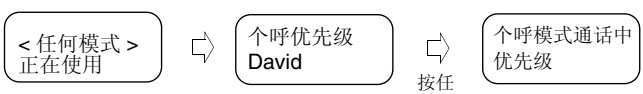
一个较低或相等优先级的 PPC 会被被叫方的忽略，且不会给予任何指示，但会被输入未应答呼叫列表。

带有紧急优先级的 PPC 呼叫在屏幕中显示为 “**紧急呼叫**”（不是**优先级**）。

接收到半双工私密 PPC

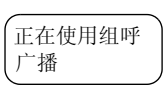


接收全双工私密 PPC



广播呼叫

广播组呼 （又称作调度员呼叫）是一个由主控台操作员 （调度员）发出给所有在单站或多站对讲机用户的高优先级组呼。对讲机是配置来监听广播呼叫的，但是用户不能对讲。



所接收的呼叫可分为普通广播呼叫或是紧急广播呼叫。

正在使用紧急呼叫广播

如果该组呼的优先级是相等 （或较低），广播呼叫会先占据一个正在进行中的组呼。

有关在广播呼叫中选择通话组的详情，请参阅第 24 页中的“选择通话组”。有关在广播呼叫中改变范围的详情，请参阅第 27 页中的 “在接收到呼叫时或在通话期间更改通话组”。

氛围聆听 (AL)

如果您的运营商已经设置好，这个功能可让一个主控台的操作员或调度员使用一个指定的 MTM800 建立一个特别的呼叫。这个特别呼叫可以监听本区邻近范围的话音活动。这个呼叫的建立不会发给受影响的 MTM800 任何指示。任何较低优先级的当前话音呼叫或传输数据包可能会被占据。

在接收该呼叫后， MTM800 在半双工个呼模式呼叫传输。传输时，没有任何活动来自用户或指示传给用户。当用户发起任何话音呼叫和作一般的操作时，氛围聆听呼叫会自动结束。

取消呼入呼叫

在所有模式下 （组呼模式除外），如果您要在呼叫进行中取消呼叫，按 。呼叫号码将被转发到未应答呼叫列表。

隐蔽模式

如果您的运营商设置了隐蔽模式，则您可以完全关闭 MTM800 警报和通知的所有显示和音频指示。此功能使 MTM800 在安静和黑暗的环境中不易被察觉。

进入隐蔽模式：

- 按 “隐蔽模式”单键按钮 （如果运营商已编程好），或者
- 选择 “保密”菜单中的 “隐蔽模式”（参阅第 69 页）。

单站集群服务

此模式，亦称 “降级运行模式”。当基站与网络的中央控制器之间的链路发生故障时，此模式使得同一个基站的多个用户可以互相通信。进入和退出单站集群服务 （即回到系统级服务）是自动运行的。

进入单站集群服务

当 MTM800 从系统中收到一个单站集群服务指示时，将发生：

- MTM800 发出一声提示音。
- 屏幕中显示 “单站集群服务”信息。
- 当进入 “单站集群服务”时，所有进行中的通话都被挂断。

如果运营商已设置好，这条信息/提示会周期性的重复提醒您，该对讲机仍处于单站集群服务模式下。

当 MTM800 工作于单站集群服务时，将提供如下功能：

- 注册
- 通话组连接
- 组呼
- 紧急组呼
- 紧急告警

退出单站集群服务

当与通信网络中央控制器的链路重新建立起来时， MTM800 将退出单站集群服务，随后：

- MTM800 发出一声提示音。
- 在单站集群服务中正在进行的任何通话都被挂断。

使显示变暗

如果背景灯被设置为 “手动”，（请参阅第 71 页中的 “设置背景灯”），则背景灯强度一共有四个强度选项。要改变背景灯强度，按 (#)。

注意 *在电话模式下、 PABX 模式下或者进行文本编辑时不能使强度无效，背景灯按键 (#) 用于输入 # 符号和/或用作切换键。*

调节音量

顺时针旋转开/关音量旋钮以调高此对讲机的音量。

逆时针旋转开/关音量旋钮以调低此对讲机的音量。

声光报警开/关

您可以使用 “声光报警” 功能，当您离开摩托车时，如有重要信息 （如个呼模式呼叫）到达，该对讲机会自动对您进行提示。

注意 *要使用 “声光报警” 功能，您必须在摩托车上安装 GKN6272 附件。*

如果预编程了 “外部报警” 功能，则摩托车车灯将打开并且发出报警声，以提示您有呼叫呼入。

要打开或关闭 “声光报警”，按 (*)。

注意 *要让 “声光报警” 工作，您必须将点火器关闭。*
*在电话模式下、 PABX 模式下或者进行文本编辑时不能使用 “声光报警” 功能，此时 (*) 键用于输入 * 符号。*

分组数据

分组数据 (PD) 业务允许您在 TETRA 系统中使用 Internet 协议 (IP) 传送数据。有关此业务的提供信息请咨询您的运营商。

注意 *当标准计算机使用活动数据电缆 GMKN1022 通过无线连接与 MTM800 之间进行数据传送时，运营商需要在计算机上安装附加的应用程序。*

如果您的运营商安装了这些应用程序，则通过使用多信道分组数据 (MSPD) 业务就可以加快数据的传输速度 （参阅第 81 页中的 “分组数据”）。

小心维护您的 MTM800

请使用一块潮湿或抗静电的软布清洁您的 MTM800。**切勿**使用干布或带静电的布。

TMO 组呼

概述

组呼是在您所选定的通话组里，您和同一通话组的其他人员之间的一种即时通信。通话的人员可以加入 （稍后加入）和离开正在进行的组呼。一个**通话组**就是预先设定好的一组用户，他们可以参与和/或请求发起一个由您的运营商设定的组呼。

通话组在屏幕中显示为名称或号码 （例如：Sales、 Service、 Electricians、 Talkgrp10）。

通话组被划分为不同**范围**。每个范围最多可以包含 16 个通话组。

为便于使用，您的 MTM800 还提供以下功能：

- 对通话组别名按字母顺序搜索。
- 用浏览键在整个通话组列表中滚动。
- 拨打通话组 （由您的运营商设置）。
- 将您的首选通话组组织到一个称为 “我的通话组”的归类中 （由您的运营商设置）。

您也可以把您的通话组设置到**扫描列表**中 （这可以由您的运营商设置或您自己通过菜单设置）。当您激活其中一个扫描列表时，您的 MTM800 将连续地监听所选的通话组的活动。

通过在扫描列表中确定的通话组优先级，您就可以应答比当前呼叫具有更高**优先级**的呼叫。有关扫描的详情，请参阅第 77 页。

当此对讲机处于待机模式或正在接收呼叫时您可以启动通话组、范围或扫描选择。

要在通话过程中同时拨打另一通话组，执行以下操作在当前呼叫中讲话：

1. 退出选择屏幕。

2. 按 **PTT** 并开始讲话。

在选择屏幕按 **PTT** 键切换到新的通话组并发起呼叫。

每个通话组都有一个相关的**通播组** (ATG)，此通话组对它进行监听 （如果您的运营商进行了设置）。

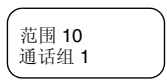
通播组 ATG 是一个特殊的通话组，它联系着大量通话组并拥有最高的优先级，可以把呼叫广播给所有这些通话组。

当选定一个通播组时，扫描图标不会显示。 MTM800 将监听这个通播组扫描列表而不再监听选中的扫描列表。通播组扫描列表包含了与选定通播组相关的所有通话组。您的运营商会告诉您哪些通话组与哪个通播组相关联。

您的 MTM800 将一直监听通播组扫描列表中的组呼。要发起一个通播呼叫，您必须按照运营商的说明首先选择指定的通播组，否则您只能在收到一个通播组呼叫后才能加入。

激活和关闭通话组扫描功能不会影响通播组扫描列表。

选择通话组



您可以通过以下方式之一选择一个通话组，使用：

- 浏览键
- 字母搜索功能
- 数字键盘输入 （如果您的运营商进行了设置）
- 首选通话组 （如果您的运营商进行了设置）

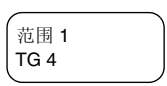
有关通话组范围滚动配置，请参阅第 27 页中的 “选择范围”中的说明。

使用浏览键

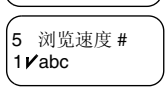
您的运营商对 MTM800 进行配置，只显示可选择的通话组。按浏览键滚动到所需的通话组，然后按 ✔。有关通话组范围滚动配置，请参阅下面 “选择范围”中的说明。

使用字母搜索

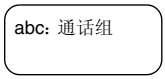
1. 在组呼模式中，按 ●●。



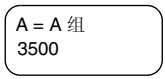
2. 选择 **abc** 使用按字母顺序搜索功能，然后按 ✔。



3. 您现在处在通话组按字母顺序搜索屏幕。输入一个字母或数字，MTM800 就开始搜索以这个字符开头的第一个通话组别名。使用浏览键滚动到相邻别名。在此例中，输入的是字母 “a”。



4. 滚动并选择所需的通话组 （通过按 ），或者按 **PTT** 选择并开始与新组成员的通话。



使用数字键盘

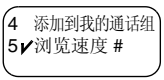
当对讲机处于组呼模式并且没有传输时 （如待机或接收呼叫时），您可以通过此键盘输入快速拨号号码来拨叫通话组。此功能又称作通话组快速拨号。快速拨号预先设置在对讲机上。

您还可以查看通话组的快速拨号属性 （如果存在）。

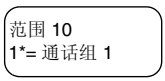
查看加入通话组的快速拨号号码

1. 在组呼模式中，按 。

2. 选择**浏览速度 #** 以浏览通话组快速拨号号码。



3. 在此例子中 “1” 为快速拨号号码。按 返回到加入通话组屏幕。

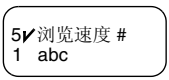


滚动时浏览快速拨号号码（仅待机模式）

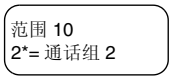
1. 在组呼模式下，案浏览键滚动到所需的通话组。

2. 按 。

3. 选择**浏览速度 #** 并按 以浏览通话组快速拨号号码。



4. 在此例子中 “2” 为快速拨号号码。按 返回到加入通话组屏幕。

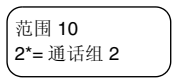


拨打快速拨号号码

1. 输入号码 （例如：“2”）。

2. 按 ✔ 或 (*)。

3. 按 ✔ 加入新的通话组，或按 **PTT** 加入并呼叫。



首选通话组

此功能允许您将首选通话组储存到一个称为 “**我的通话组**” 的归类中。储存的通话组可能是 TMO 或 DMO。

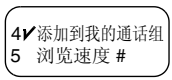
您可以执行以下储存：

- 从组呼模式屏幕中储存，或者
- 从 “我的通话组”菜单选项中储存。

从组呼模式屏幕添加通话组

1. 在组呼模式屏幕中滚动到所需的通话组并按 ●●。

2. 选择 “**添加到我的通话组**”。



对讲机显示短消息中添加的通话组别名，然后返回到待机状态。

从我的通话组选项菜单中添加通话组

请参阅第 64 页中的 “我的通话组”。

从我的通话组范围中选择一个通话组

请参阅第 64 页中的 “我的通话组”。

在接收到呼叫时或在通话期间更改通话组

在接收到呼叫时，或在通话过程中，您可以选择通话组文件夹而不中断。

在接收到呼叫时选择通话组

在选择通话组时如果有一个呼叫正在呼入，当您听到呼叫时 MTM800 的显示保持不变。

在选择过程中，您看不到呼叫方信息。

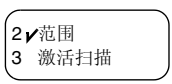
注意 *接收到紧急呼叫时，选择终止， MTM800 切换到通话组模式，屏幕上显示 “正使用紧急呼叫”。*

通话进行时选择通话组

如果在通话进行时开始选择通话组，“**正在使用组呼**”或“**正使用紧急呼叫**”显示消失。

选择范围

要选择一个范围：



1. 按 ，选择 “**范围**”选项。
2. 使用 ◀ 或 ▶ 在范围间滚动。
3. 按 ✓ 确认您的选择 （或者 PTT 以便在新的范围内发起呼叫）。

注意 *运营商可以设置滚动的范围为：*

- *始终处于范围内 — 当通话组滚动到范围末尾时，继续滚动将会使屏幕返回到通话组列表的范围开始。*
- *滚动到下一个范围 — 当通话组滚动到范围末尾时，继续滚动会进入下一个范围的通话组列表。*

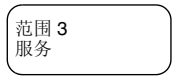
启动/关闭扫描

请参阅第 77 页中的 “设置通话组扫描”。

发起一个组呼

1. 按 。

现在您处在通话组模式。在此例中，“范围 3”为最后选择的范围。“服务”是最后选选择的通话组。



2. 如果这是所需的通话组和范围，请按 **PTT** 键。等听到 “通话允许”音后 （如有设置）再对麦克风讲话。

松开 **PTT** 键接听。

3. 要选择一个未显示的通话组，按 或 在通话组间滚动。按 确认您的选择。

按 **PTT** 键在新的通话组中发起呼叫。

4. 要选择一个未显示的范围，按 ，选择 “范围”选项，使用 或 进行滚动。

按 确认您的选择（或者 **PTT** 以便在新的范围内发起呼叫）。这个呼叫被设定在一个新的范围并且是该范围内最后选定的通话组。

当您发起一个呼叫时，选定通话组中已经开机的组员将会收到您的呼叫。

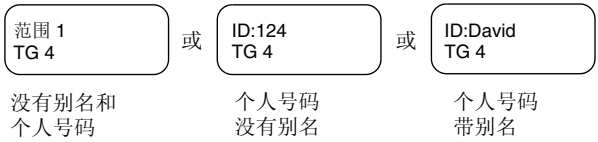
注意 *当您超出了所选定的通话组正常覆盖范围，则会显示 “没有通话组”信息。请选择在您的工作范围内有效的新通话组。*

接收组呼

除非 MTM800 正在进行通话，否则它将自动切换到组呼模式并接收此呼叫。要应答该呼叫，请按住 **PTT** 键。

您的 MTM800 将显示通话组名和呼叫方的个人号码或姓名（别名）（如果以前存储在您的号码簿中）。接收到首选通话组时，对讲机将显示 “我的通话组”范围和通话组别名。

以下屏幕举例说明如何显示呼叫方的身份码 (ID 124)。



注意 *有关呼叫提示的信息，请参阅 “提示音”菜单选项中的设置（第 73 页）。*

注意 *当接收到一个组呼时，您的 MTM800 将听到一声 “新组呼”的提示音 （如果您的运营商进行了设置）。*

在扫描关闭时接收组呼

您可以只接收来自选定通话组或与其相关的通播组的组呼。

在待机模式接收一个组呼

在 “自动模式切换”时您可以以任何模式接收一个组呼。您的 MTM800 会自动切换到组呼模式并接收通信。

正在使用组呼
TG 4

正在进行组呼时接收到一个组呼

根据运营商对呼入所作的设定，呼入将会：

- 强占通话并打断您正在进行的呼叫 （如果该呼入的优先级高于正在进行的通话）。

  或

- 提示给您选择 （如果该呼入的优先级高于当前通话的优先级）。

  要接收此呼叫，按 ✔，然后按 **PTT** 键。

ID:124
通话组 7

扫描打开时接收组呼

扫描打开时，您除了可以从所选定的通话组或相关 ATG 接收组呼外，还可以从所设置的扫描列表接收组呼。

接收扫描呼叫功能与在扫描关闭时接收相关 ATG 或选定呼叫相同 （请参阅上一页），但以下情况除外：

- 与您在待机模式下接收呼叫的显示屏幕不同，如图所示。
- MTM800 将会如以下说明发出提示音。

注意 *接收到一个高优先级组呼时，您的 MTM800 将听到一声 “高优先级组呼”的提示音 （如果您的运营商进行了设置）。*

注意 *当您从扫描列表中接收一个组呼，而该组呼不是来自一个高优先级组，您的 MTM800 将听见一声 “新组呼”的提示音 （如果您的运营商进行了设置）。*

接收紧急组呼

详情请参阅第 19 页。

接收广播呼叫

详情请参阅第 19 页。

禁止传输

在用户进入射频敏感区域前，例如在进入医院或具有潜在辐射的区域前，用户可以激活禁止传输 (TXI) 模式，因为在这些区域可能会由于对讲机传输辐射而危及安全。

注意 *激活 TXI 模式或将此对讲机与电源隔离只是抑制 MTM800 的辐射。*

禁止传输模式只能在组呼模式中被激活。当此对讲机处于禁止传输模式时，在任何情况下都不会进行通信，但紧急组呼除外，即使 MTM800 处于 TXI 模式也会发起紧急组呼。

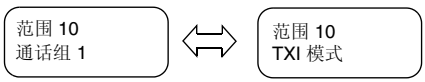
所有用于传输的对讲机功能和按键，例如：网络入网登记、改变通话组或范围、发送短消息，按 **PTT** 键等都被关闭。此时屏幕显示 “不允许在 TXI 模式”，同时此对讲机发出 “禁止传输”提示音。

当对安全产生影响的危险因素消失后 （例如如果您离开了射频敏感区域），您可以关闭禁止传输模式，此对讲机将返回正常操作模式。

有关 TXI 模式的设置，请参阅第 77 页中的 “设置禁止传输 (TXI) 模式”。

注意 *要激活或关闭 TXI 模式，您可以使用一个编程键 （如果您的运营商进行了设置）。您必须按住此键并保持预设的时间 （由您的运营商进行设置）。*

激活的禁止传输模式是通过黄色 LED 表示的，并在两个显示之间转换：



动态通话组号码分配 (DGNA)

DGNA 功能使网络运营商或授权的用户能够通过空中接口为选定的对讲机分配新的或更新现有的通话组。使用辅助服务短消息 (SS-DGNA)，网络运营商能够命令对讲机将通话组添加到现有通话组列表中，或者从列表中删除通话组。此操作是通过发送数据到您的 MTM800 来实现的。

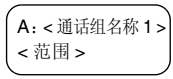
注意 *您的运营商可以将一些通话组汇总在一个超级通话组之下，然后将它作为一个 DGNA 发送给您的 MTM800。在这种情况下，您就能够参与该超级通话组中所有通话组的呼叫。*

DGNA 接收时的通知信息

如果您的运营商已为您设置了 DGNA 通知功能，在接收到 DGNA 时，您将听到提示音和通知信息 （“正在编辑条目 ...”），然后显示新的分配。

如果您的运营商没有为您设定 DGNA 通知功能，那么当一个已被选定的通话组被 DGNA 更改时，您只会收到一声提示音。

1. 要查看添加或删除的通话组详情，请按 ✔。
   您可以用 ◀、▶ 键在列表中滚动。



2. 返回初始模式显示按 ✖。
3. 要选择 DGNA 组，按 ✔。或者使用浏览键滚动到另一个通话组，然后按 ✔。

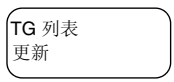
注意 *一旦您退出了 DGNA 的通知信息屏幕，“选择”键会消失。要选择一个新加入的组，请参阅第 24 页。*

如果已经设置，则新加入的组将被自动作为选定的组，并且替代当前选定的组。如果稍后删除此通话组，则此对讲机会在接收自动添加的组之前重新选择上次选定的组。

如果已经设置，则新加入的组将成为最新选择的通话组。

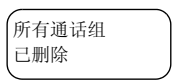
如果重新指定此通话组，则通话组不改变或不发生电源循环，此对讲机将恢复到以前的通话组。

如果在滚动过程中接收到新的 DGNA，则您将接收到一条消息，说明通话组列表已被更新。



几秒钟后，显示屏将返回初始 DGNA 屏幕，说明详细更新信息：

如果接收到的 DGNA 是所有 “通话组删除”的分配，则您的 MTM800 如右图显示：



DGNA 接收时无通知信息

如果您的运营商没有为您设定 DGNA 通知功能，那么只有当一个已选定通话组被 DGNA 更改时，您才会收到一声提示音和通知信息。

DGNA 自动选择通话组

如果您的运营商对 “DGNA 自动选择”进行了设置，无论何时您的对讲机接收到一条 DGNA 消息，此通话组将自动成为您的对讲机选定的通话组。

按键/脚踏开关

此功能可以让用户通过按紧急键/脚踏开关来发送预置状态信息。TMO 紧急模式、紧急告警和发起 TMO 紧急组呼/个呼不可用。

短消息寻址和发送：

- 地址可以由运营商提前指定，否则会发送给当前选定的通话组
- 如果未选定通话组，短消息会被发送给预留地址
- 即使用户未包含在任何有效服务中，短消息也会被发送。

指示取决于运营商。可以禁用状态信息的可视/音频指示。

当对讲机被 PIN 锁定时，用户依然可以按紧急键/脚踏开关来发送短消息。如果对讲机处于服务范围之外，则用户只能看到操作失败的提示。

DMO 组呼

概述

在直通模式 (DMO) 中， MTM800 可以在没有系统覆盖的情况下使用。

直通模式允许在选择了相同通话组的对讲机之间进行通信。

注意 *在 DMO 模式中可以发起组呼、紧急组呼和半双工个呼。*

您可以接收呼叫，此呼叫来自：

- 选定的通话组。
- 同一对讲覆盖范围内的其他用户 （如果您的运营商已设置）。这称为 InterMNI （移动网络标识）呼叫。
- 开放组。（一个开放组是所有 DMO 组所属的超级通话组）。

当您发起呼叫时，选定通话组中已打开设备的人员和属于此通话组用户身份 （根据运营商的设置）的用户，都会接收该传输。

如果对讲机的 **“网关”**选项被激活，在 DMO 模式下 MTM800 便可与集群系统通信 （反之亦然）。

为了扩大此对讲机的 DMO 覆盖范围，如果对讲机中的 **“转发器”**选项被激活，则 DMO 组可以连接到一个转发器。此外可以使用 **“网关 + 转发”**（网关和转发器）通信模式。

如果此对讲机被设为 DMO 时激活了禁止传输功能，则 PTT 将被禁用。您只能进行监听。有关禁止传输的详情，请参阅第 30 页。当禁止传输功能被激活时允许进行 DMO 通话组选择。

选择通话组

请参阅第 24 页中的 “选择通话组”。

在接收到呼叫时或在通话期间更改通话组

请参阅第 27 页中的 “在接收到呼叫时或在通话期间更改通话组”。

从 TMO 切换到 DMO 或者从 DMO 切换到 TMO

通过以下方式之一进入 TMO 或 DMO：

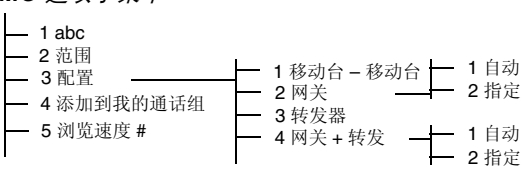
- 从 TMO 切换到 DMO 时按住 (⊢⊣)。
- 从 DMO 切换到 TMO 时按住 (⊢⊣)。

选择网关/转发器

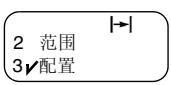
使用 DMO 配置子菜单来设置网关和转发器选项。

1. 按 ●● 进入 DMO 中的选项菜单：

DMO 选项子菜单



2. 滚动屏幕至 **“3 配置”**并按 **“确定”**。

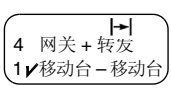


选择终端到终端的 DMO 组呼 (●● 3 1)

要从网关或转发器模式更改为 MS – MS 模式 （DMO 对讲机到对讲机呼叫）：

1. 按 ●●，滚动到 **“3 配置”**，然后按 ✓。

2. 滚动到 **“1 移动台 – 移动台”**，然后按 ✓。将显示以下消息并持续显示几秒钟：**将使用移动台 – 移动台。**

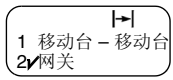


选择通过网关的 DMO 组呼 (3 2)

处于 DMO 时，请按照下列步骤选择网关以便为所选择的通话组建立通过网关的呼叫：

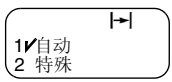
1. 按 ，滚动到 “**3 配置**”，然后按 。

2. 滚动到 “**2 网关**”并按 。



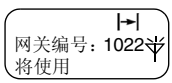
3. 屏幕显示上一个网关类型。使用浏览键滚动到您的选择然后按 ：

自动 — MTM800 将为该通话组使用第一个可用网关。在选择该选项时网关图标将闪烁。

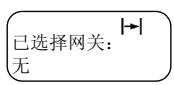


指定 — MTM800 只为该通话组使用指定网关地址的网关。选择 “指定”时您将看到以下显示之一：

- 所选的网关地址 （如：1022）已由您的运营商预先编程或者是您以前通过键盘自己输入。按 使用当前地址，或者通过键盘输入一个新地址，然后按 。在选择网关时网关图标将闪烁。



- “无”表示没有为该通话组选择网关。通过键盘输入一个地址，然后按 。在选择网关时网关图标将闪烁。



当 MTM800 找到合适的网关时，网关图标将变成稳定的，不再闪烁。

选择通过转发器的 DMO 组呼 (3 3)

处于 DMO 时，请按照下列步骤选择转发器选项以便为所选择的通话组建立通过转发器的呼叫：

1. 按 ，使用浏览键滚动到 “**3 配置**”，然后按 。

2. 滚动到 “**3 转发器**”并按 。

3. MTM800 将使用此通话组的第一个可用转发器。在选择转发器时转发器图标将闪烁。

当 MTM800 找到合适的转发器信号时，转发器图标将变成稳定的，不再闪烁。

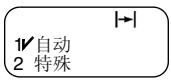
选择通过网关和转发器的 DMO 组呼 (3 4)

处于 DMO 时，请按照下列步骤选择网关和转发器选项以便为所选择的通话组建立通过网关或转发器 （网关优先）的呼叫：

1. 按 ，滚动到 **“3 配置”**，然后按 。

2. 滚动到 **“4 网关 + 转发”**并按 。

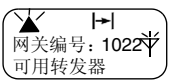
3. 屏幕显示最后一个 “网关 + 转发”类型选项。使用浏览键滚动到您的选择然后按 ：



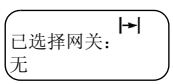
自动 — MTM800 将为该通话组使用第一个可用网关。在选择时网关图标和转发器图标将闪烁。

指定 — MTM800 只为该通话组使用指定网关地址的网关。选择 “指定”时您将看到以下显示之一：

- 所选的网关地址 （如：1022）已由您的运营商预先编程或者是您以前通过键盘自己输入。按 使用当前地址，或者通过键盘输入一个新地址，然后按 。在选择网关时网关和转发器图标将闪烁。



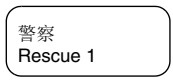
- “无”表示没有为该通话组选择网关。通过键盘输入一个地址，然后按 。在选择网关时网关和转发器图标将闪烁。



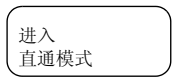
当 MTM800 找到合适的网关和/或转发器时，网关和/或转发器图标将分别变成稳定的，不再闪烁。

发起 DMO 组呼 （移动台到移动台）

1. 按住 (⊢⊣) 几秒钟。



2. 更改范围和通话组，参阅第 28 页中的“发起一个组呼”的步骤 3 和 4。



3. 如果这是所需的通话组和范围，请按 **PTT** 键。等听到“通话允许”音后（如有设置）再对麦克风讲话。松开 **PTT** 键接听。

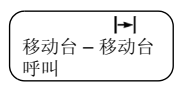
如要更换通话组和范围，请参阅第 24 页 “组呼模式”部分的内容。

通过网关发起 DMO 组呼

1. 处于 DMO 时，选择第 36 页中的 “选择通过网关的 DMO 组呼”中所述的网关。

2. 发起所选通话组的呼叫：

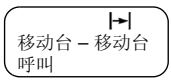
- 当网关不可用时按 **PTT** 键，您将不通过网关发起 DMO 呼叫。网关图标将消失。
- 如果当选定网关可用时按 **PTT**，但此呼叫被网关拒绝，您的 MTM800 将发出提示音并通过屏幕显示通知您通过网关的呼叫失败，此对讲机将自动发起不通过网关的 DMO 呼叫。网关图标将消失。



- 如果您在网关可用时按 **PTT** 键，您将通过网关发起 DMO 呼叫。网关图标将变为稳定的。

发起 DMO 组呼 （通过转发器）

1. 处于 DMO 时，选择第 36 页中的“选择通过转发器的 DMO 组呼”中所述的转发器选项。
2. 发起所选通话组的呼叫：
   - 当转发器不可用时按 **PTT** 键，您将不通过转发器发起 DMO 呼叫。转发器图标将消失。
   - 如果在所选转发器可用时按 **PTT** 键，但此呼叫被转发器拒绝，您的 MTM800 将发出提示音并显示以下屏幕，通知您将不通过转发器建立呼叫。转发器图标将消失。



   - 当转发器可用时按 **PTT** 键，您将通过转发器发起 DMO 呼叫。转发器图标将变为稳定的。

发起 DMO 组呼 （通过网关和转发器）

1. 处于 DMO 时，选择第 37 页中的 “选择通过网关和转发器的 DMO 组呼”中所述的网关和转发器选项。
2. 发起所选通话组的呼叫：
   - 当网关和转发器*不可用*时按 **PTT** 键，您将不通过网关和转发器发起 DMO 呼叫。网关和转发器图标将消失。
   - 当网关和转发器都*可用*时按 **PTT** 键，但此呼叫被网关拒绝，则将尝试通过转发器发起呼叫。
     > 如果*成功*，您的 MTM800 会显示消息 “**转发呼叫**”，将通过转发器建立呼叫。网关图标将消失。
     > 如果*不成功*，您的 MTM800 会显示消息 “**移动台 – 移动台呼叫**”，将建立移动台到移动台的呼叫。网关和转发器图标将消失。
   - 当网关和转发器都*可用*时按 **PTT** 键，将尝试通过网关发起呼叫。
     > 如果*成功*，您的 MTM800 将通过网关发起 DMO 呼叫。网关图标将变为稳定的。转发器图标将消失。
     > 如果通过网关发起呼叫*不成功*，则将尝试通过转发器发起呼叫。

> 如果*成功*，您的 MTM800 会显示消息 **“转发呼叫”**，将通过转发器建立呼叫。网关图标将消失而转发器图标变为稳定的。

> 如果*不成功*，您的 MTM800 会显示消息 **“移动台 – 移动台呼叫”**，将建立移动台到移动台的呼叫。网关和转发器图标将消失。

注意 *如果选择了网关和转发器模式，并且如果其中一个设备不可用，则会继续建立呼叫，仿佛未选择该不可用的设备。*
*例如：如果网关可用而转发器不可用，在尝试建立网关呼叫不成功后，呼叫将会立即返回到移动台 – 移动台模式，同时显示消息 **“移动台 – 移动台呼叫”**。*

接收 DMO 组呼

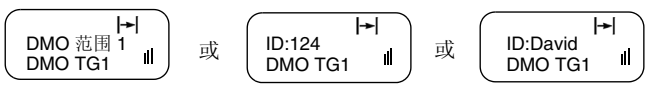
只有当您的 MTM800 处于 DMO 模式时，您才可以接收 DMO 组呼。

您的 MTM800 会显示呼叫方的个人号码或别名和通话组名称。

以下屏幕显示如何显示呼叫方的身份。

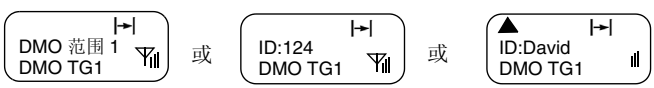
注意 *有关呼叫提示的信息，请参阅 “提示音” 菜单选项中的设置（第 73 页）。*

接收 DMO 组呼 （移动台 – 移动台呼叫）



没有别名和私密 ID　　无名称的私密 ID　　带名称的私密 ID

接收 DMO 组呼 （通过网关/转发器）



没有别名和私密 ID（如通过网关）　　无名称的私密 ID（如通过网关）　　带名称的私密 ID（如通过转发器）

将显示与当前呼叫类型 （网关或转发器）对应的网关或转发器图标。

注意

- *如果选择了移动台到移动台模式，但移动台接收到一个通过转发器的呼叫，将显示转发器图标 （如果运营商启动了转发器模式，否则就不会接收到此呼叫）。*
- *如果选择了网关模式但网关不可用，则在接收到网关呼叫时网关图标将变为稳定的。*

DMO 个呼模式呼叫

如果您的运营商已配置好，则您可以发起和接收 DMO 个呼。

但即使启用了网关和/或转发器选项，也不会将它们用于 DMO 个呼。 DMO 个呼是两个 TETRA 对讲机之间的直接通信 （移动台 – 移动台）。

详情请参阅第 45 页中的 “DMO 个呼”。

接收紧急组呼

详情请参阅第 54 页中的 “在 DMO 模式中的紧急呼叫”。

个呼

概述

个呼模式呼叫，也称为点对点或个人呼叫，是发生在两个个人用户之间的呼叫通信。其它对讲机都不能听到他们的对话。

此呼叫可以是

- **TMO** 模式下的*全双工*呼叫 （如果系统允许），或者
- **TMO** 或 **DMO** 模式下的*半双工*呼叫。

在全双工呼叫时，通话的双方可以同时讲话，而在半双工呼叫时，同一时间只有一方可以讲话。

注意 *如果您的运营商已限制了对号码簿的访问，则不能创建一个新的联系人、编辑现有的号码簿或拨打号码簿中没有的号码。*

进入个呼模式

要进入个呼模式，按 (8)。

在本例中， 8008801 是上一次呼叫或被呼叫对讲机的个人号码。别名不会被显示，因为没有在个人号码列表上预先设定它。如果这就是您想与之通话的人，请按 **PTT** 键。

如果您想与之通话的人没有显示，您可以通过以下方法输入此人的个人号码：

- 上次呼叫的号码
- 直接输入
- 缩位拨号
- 列表滚动

请按 (X) 返回个呼模式显示。

有关在射频敏感区域使用 MTM800 的信息，请参阅第 30 页中的 “禁止传输”。

注意 *当激活禁止传输功能时，会指示有个呼呼入，但不能应答此呼入。*

输入个呼号码

上次呼叫的号码

按 **PTT** 键呼叫上次呼叫的号码。

直接输入

输入个人号码。如果您所输入的号码已经存在于预先设定的私人号码簿中， MTM800 将找到此号码。

缩位拨号

如果运营商设置了缩位拨号功能，您只需拨打您要呼叫方号码的一部分即可。您的 MTM800 将自动补全该号码并根据您的对讲机标识发送此号码。

例如：

1. 拨 456 （而不用拨全部号码 4282456）。

2. 要发起该呼叫，按 **PTT** 键。

3. 要挂机，请按 。

列表滚动

请按 ◀ 或 ▶ 在存储号码和姓名的列表中向后或向前滚动。

发起 **TMO** 模式下的个呼

1. 输入您要呼叫的呼叫方号码。

2. 按下 **PTT** 键后再松开。您将听见振铃音。等待被叫方应答您的呼叫。

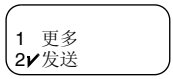
3. 通话时按住 **PTT** 键，接听时释放 **PTT** 键。

4. 要结束通话，请按 。如果被叫方结束通话，屏幕显示“呼叫结束”消息。

发起 TMO 模式下的全双工个呼模式呼叫

1. 输入您要呼叫的呼叫方号码。
2. 按 ✓。

   选择 “发送” 并按 ✓。



3. 一旦此呼叫发送成功，您将听到振铃音。等待被叫方应答您的呼叫。
4. 要结束呼叫时，请按 ✓。如果被叫方结束通话，屏幕显示 “呼叫结束” 消息。

在 TMO 模式下接收个呼

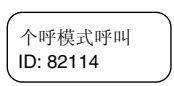
1. MTM800 将自动切换到个呼模式并开始振铃。个呼模式呼叫图标开始闪烁，并且屏幕显示呼叫方的身份。
2. 请按 **PTT** 键应答呼入。
3. 要结束或取消呼叫，请按 ✗。屏幕自动返回到接收呼入前的模式。

如果被叫方结束通话，屏幕显示 “呼叫结束” 消息。

注意 *有关呼叫提示的信息，请参阅 “提示音” 菜单选项中的设置（第 73 页）。*

接收 TMO 模式下的全双工个呼模式呼叫

1. MTM800 将自动切换到个呼模式并开始振铃。显示屏上将显示主叫方的识别码。



2. 请按 **PTT** 键应答呼入。
3. 要结束或取消呼叫，请按 ✗。屏幕会自动返回到接收呼入前的模式。

如果被叫方结束通话，屏幕显示 “呼叫结束” 消息。

注意 *有关呼叫提示的信息，请参阅 “提示音” 菜单选项中的设置（第 73 页）。*

DMO 个呼

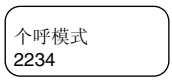
如果您的运营商已配置好，则您可以发起和接收 DMO 个呼。只有当您的 MTM800 处于 DMO 模式时，您才可以发起或接收 DMO 个呼。

注意 *系统不支持通过 DMO 转发器和/或 DMO 网关的个呼。*

主叫方和被叫方应当是同一个通话组。

发起 DMO 个呼模式呼叫

1. 要进入个呼模式，按 (👤)。
2. 输入如第 43 页中的 “输入个呼号码”中所述的号码。

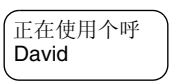


3. 按住 **PTT** 键。等待通话允许音 （如已配置）然后讲话，释放 **PTT** 键接听。
4. 在经过了预先设定的时间后，或者如果您按了 ✕ 后会结束呼叫。

注意 *对 DMO 模式下个呼的被叫方不进行存在性检查。这意味着在发起该呼叫时您不知道被叫方是否存在。*

接收 DMO 个呼

接收 DMO 个呼时，不需要被叫方接受它就可以立即开始呼叫。



1. 按 **PTT** 键回话并开始通话。
2. 在经过了预先设定的时间后，或者如果您按了 ✕ 后会结束呼叫。

注意 *如果被叫方按 ✕，则 DMO 个呼被会挂起一段指定的时间，如果主叫方仍然在继续通话，则被叫方会再次加入此通话。*

接收呼叫时拨号

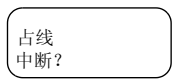
在您拨号时如果有一个呼叫正在呼入，当您听到呼叫时 MTM800 保持当前模式，显示保持不变。在当前显示中继续拨号。

注意 *接收到紧急呼叫时，拨号终止， MTM800 切换到通话组模式，屏幕上显示 “正使用紧急呼叫”。*

发起私密 PPC （先占式优先权呼叫）

注意 *此功能只有在您的运营商为您设置后才能使用。*

1. 输入个人号码，然后按 **PTT** 键，对于全双工呼叫，按 ✔，选择 “**发送**”，然后再按 ✔。



2. 如果屏幕显示被叫用户正忙，按 ✔ 中断正在进行的呼叫，或者按 ✘ 结束通话。
3. 您将听见振铃音。等待被叫方应答您的呼叫。
4. 与普通半双工个呼或全双工个呼一样继续此呼叫。

呼叫排队

在呼叫建立阶段如果没有基础设施资源用于此呼叫，或者在小区重新选择过程中有激活的呼叫时，此呼叫将被排队。MTM800 将在预先设定的时间段内一直处于排队状态。如果有可用资源，将继续进行呼叫。如果在这个时间段过后还是没有可用资源，则 MTM800 将结束呼叫。

电话及专用自动交换分机呼叫

概述

电话模式可以让您呼叫固定电话号码或移动电话号码。在本手册中我们用 “电话号码”来指代这些电话号码。

如果这模式已由您的运营商激活 , **专用自动交换分机 (PABX) 模式**使您能够呼叫本地的 （交换局）分机号码。

这两种模式都有相同的拨号特点。

有关在射频敏感区域使用 MTM800 的信息，请参阅第 30 页中的 “禁止传输”。

注意 *当激活禁止传输功能时，会指示有电话呼入或 PABX 呼叫，但不能应答此呼入。*

注意 *如果您的运营商已限制了对号码簿的访问，则不能创建一个新的联系人、编辑现有的号码簿或拨打号码簿中没有的号码。*

发起电话或 PABX 呼叫

1. 按 ☎。
使用浏览键滚动到您所需的选项，然后按 ✔。

2. 更改到电话/PABX 模式后显示屏上就会出现最近拨打的号码。
在此例中， 039694040 是上次拨打的电话号码。

3. 如果这就是您想与之通话的人，请按 **PTT** 键。

4. 要挂机，请按 ✖。

如果您想与之通话的人没有显示，您可以通过以下方法输入此人的号码：

- 重拨上次呼叫号码
- 直接拨号
- 快速拨号

- 单键拨号
- 列表滚动

按 ⏻ 返回模式显示屏幕。

重拨上次呼叫号码

没有显示号码时，按 **PTT** 键将重拨上次呼叫的号码。

直接拨号

1. 用键盘直接拨全部的号码。
2. 要发起该呼叫，按 **PTT** 键。
3. 要挂机，请按 ⏻。

快速拨号

快速拨号允许您最少只拨 两位数字而不必拨全部的号码。快速拨号号码是号码簿中一个条目的位置。

1. 输入预先编程的快速拨号号码 （例如：5）并按 (#)。
2. 要发起该呼叫，按 **PTT** 键。
3. 要挂机，请按 ⏻。

单键拨号

单键拨号允许您通过按住数字键 (2 – 9) 中的一个键来发起呼叫。此号码是号码簿中条目 (2 – 9) 的位置对应的被叫用户。

1. 按住所需的数字键数秒钟。您的 MTM800 将显示此号码并拨号。
2. 要挂机，请按 ⏻。

注意 *如果单键功能被激活，单键拨号将无效 （请参阅第 15 页）。*

列表滚动

1. 请按 ◀ 或 ▶ 在存储号码和姓名的列表中向后或向前滚动。屏幕中将显示别名 （姓名）（如果已经输入）。如果没有别名，将显示号码。
2. 要发起该呼叫，按 **PTT** 键。
3. 要挂机，请按 ✕。

注意 *显示别名时按 ✓ 您可以看到此号码。*

DTMF 拨号

如果您的运营商已预先设定 DTMF 拨号，则您可以在呼叫过程中与一台自动应答设备 （例如话音信箱或录音电话）进行通信。

在呼叫过程中，按 0 – 9、 *、 # 键。这时，此键将发出提示音，并且屏幕中将显示输入的数字。

电话正在使用
12345*#67890

接收呼叫时拨号

请参阅第 46 页中的 “接收呼叫时拨号”。

应答一个电话或 PABX 呼叫

1. MTM800 将自动切换到电话模式并开始振铃。电话图标开始闪烁。
2. 要应答呼入，按 **PTT** 或任意键 （电源开/关除外）。
3. 要结束或取消呼叫，请按 ✕。屏幕自动返回到接收呼入前的模式。

如果被叫方结束通话，屏幕显示 “**呼叫结束**”消息。

注意 *有关呼叫提示的信息，请参阅 “提示音”菜单选项中的设置（第 73 页）。*

紧急模式

概述

在**集群模式** (TMO)，您可以发送一个**紧急告警**给调度员。同时，也可以发起和接收**紧急组呼**。 TMO 模式下的对讲机可以接收发送给与通播组有关的选定通话组、或者扫描通话组的紧急呼叫。如果通播组为当前选定的通话组，此对讲机将接收发送给与此通播组有关的通话组的紧急组呼。（有关通播组的详情，请参阅第 24 页。）您可以用 MTM800 发起一个紧急组呼而不需要按住 PTT 键 （也就是紧急麦克风功能）。

在**直通模式** (DMO) 下，您可以发起和接收一个**紧急组呼**。

您的运营商可能配置

- 紧急组呼
- 紧急个呼 （如果基础设施支持）
- 紧急告警
- 紧急麦克风功能
- 紧急模式指示

当您从 TMO 切换到 DMO 时，该对讲机会保留紧急模式。如果紧急模式在 TMO 下可用，则当您从 DMO 切换到 TMO 时仍然会保留紧急模式。

该呼叫会向系统取得紧急优先权。

如果 MTM800 正在服务，同时连接着任何一个通话组，这些功能就可以激活。

紧急组呼被配置为 “非战术”或 “战术”：

- 在运营商指定的通话组上会发起一个**非战术**呼叫。在开始呼叫时此通话组可能不同于对讲机屏幕上显示的通话组。从非战术紧急模式退出之后，对讲机将被连接到发起非战术呼叫前选定的通话组中。处于非战术紧急模式中时，您将不能切换通话组。

  DGNA 消息在非战术紧急模式中没有影响，但在退出非战术紧急模式后会有影响。

- 在当前选择的通话组上发起一个**战术**呼叫。

注意 *有关呼叫提示的信息，请参阅 “提示音”菜单选项中的设置（第 73 页）。*

进入 TMO 或 DMO 模式

通过以下方式之一进入 TMO 或 DMO：

- 按住 (⊢⊣) 几秒钟 (TMO/DMO)

进入或退出紧急模式

要从任何其它模式进入紧急模式，按 (△)。

注意 *在 TMO 模式下进入紧急模式时，MTM800 会自动向调度员发送一个紧急告警（如果运营商进行了设置）。*

在以下情况下，此对讲机将退出紧急模式并切换到组呼模式：

△
紧急呼叫
TG4

- 当您按住 ✕ 时。
- 对讲机加入非战术通话组失败。
- 系统基础设施与选择的非战术通话组分开。

注意 *您按紧急键所需的缺省设置时间是 0.5 秒。该时段可以由您的运营商为您设置。*

注意 *如果禁止传输被激活时按紧急呼叫键，则对讲机会立刻发出呼叫。*
当进入紧急模式时，该对讲机不能再处于射频敏感区域！

注意 *当您按紧急呼叫键 (△) 时， MTM800 将中断氛围聆听。*

隐形紧急

注意 *运营商可以启用/禁用此功能。*

隐形紧急模式是一种无语音指示的紧急服务，对于任何紧急操作，屏幕都对应于待机状态。在该模式下，只有用户才知道对讲机处于紧急模式并发出紧急告警。

用户退出紧急模式时将恢复所有设置。

按住标有 “**退出**”的软按键可退出隐形紧急模式。

改变范围或改变通话组

如果 “紧急组呼” 被配置为 “战术”，您可以选择显示通话组之外的其它通话组。按 ▶，然后按 ✔。

要改变范围，按 ●●，然后按照第 28 页中的 “发起一个组呼” 中的说明操作。

在 TMO 模式中的紧急呼叫

发送一个紧急告警

您的 MTM800 将会发送紧急告警 （如果您的运营商进行了设置）：

- 在进入紧急模式时将自动发送。
- 当 MTM800 处于紧急模式时按 ⚠。
- 如果您在紧急模式中改变通话组。

屏幕将显示以下两种提示信息之一：

- **已发送警报**
- **警报发送失败**

在这两种情况下，显示屏在数秒钟之内就会回到紧急模式的主屏幕。

由于 DMO 下没有提交确认，“**已发送警报**” 只确认警报的发送。

或者 – 如果您的运营商进行了设置，您的 MTM800 将会发送紧急告警：

- 如果您之前在未进入紧急模式的情况下按了紧急按钮/脚踏开关。
  - 其它紧急服务如发起 TMO 紧急模式呼叫或紧急个呼（如果基础设施支持）将无法使用。
  - 发送紧急告警将没有可见或音频指示。

注意 *当用户处在 “单站集群服务” 区域内时，有些系统是不支持紧急告警功能的。（请参阅第 21 页。）*

发起一个紧急组呼

在紧急模式中，要发起或应答呼叫：

1. 按住 **PTT** 键。

2. 等待通话允许音，然后开始讲话 （如果已设置好）。

3. 松开 **PTT** 键即可接听。

注意

*按 MTM800 上的**紧急**键将进入 TMO 模式 （如果您的运营商进行了设置）。对讲机将加入预定义的通话组并开始发起紧急组呼。如果预定义的通话组是无效的通话组，则对讲机会加入上次选择的通话组。*

紧急麦克风功能

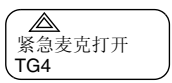
如果运营商将紧急麦克风功能预先设定在您的 MTM800 中，您不需要按住 **PTT** 键也可以发出紧急组呼。

在进入紧急模式时将会出现以下状况：

1. MTM800 将会自动发送紧急告警给调度员 （如果您的运营商进行了设置）。

2. 您将会听到一声通话允许音。

3. 此时出现以下显示：



麦克风保持打开的时间是由运营商决定并设定的。

当紧急麦克风打开时间超时后，或者您在紧急麦克风状态下按了 **PTT** 键，屏幕中将会出现 “**紧急麦克结束**”信息，对讲机将返回紧急模式。此时，紧急麦克风功能关闭， PTT 键操作返回正常。

若要恢复，再按一下 (▲)。

如果通话组中另一个成员被允许通话，您将会听到 “紧急呼叫已接收”的提示音。

如果您的运营商已事先设定好，您的 MTM800 会再次尝试要求通话，屏幕中会显示 **“等待紧急麦克打开”**信息。

注意 *在这段等待的时间内， MTM800 的麦克风将不能使用，直到 **“紧急麦克打开”** 信息显示。*

接收紧急组呼

TMO 模式下的对讲机可以接收发送给选定通话组、相关通播组或者扫描通话组的紧急呼叫。如果通播组为当前选定的通话组，此对讲机将接收发送给与此通播组有关的通话组的紧急组呼。（有关通播组的详情，请参阅第 24 页。）

当 MTM800 接收到呼叫时，屏幕中会显示出呼叫方的身份。如果屏幕处于待机状态，则会显示 **“正使用紧急呼叫”**。

如果在进入紧急模式期间内，您的 MTM800 接收到一个紧急呼叫，而紧急麦克风功能已经被您的运营商激活，屏幕将显示 **“等待紧急麦克打开”**。您的 MTM800 会尝试获得通话许可。

在 DMO 模式中的紧急呼叫

您可以发起到通话组的紧急呼叫。

您可以接收来自选定通话组的呼叫 （如果您的运营商进行了设置），也可以接收来自在同一对讲覆盖范围内其他用户的呼叫，或者是来自一个开放小组的呼叫。（一个开放组是所有 DMO 组所属的超级通话组）。

紧急呼叫可以通过网关和转发器发送。有关网关和转发器的设置，请参阅第 35 页中的 “选择网关/转发器”。

发起紧急组呼

要发起或应答一个呼叫：

1. 按住 (△) 键进入紧急模式。

2. 按住 **PTT** 键。

3. 等待通话允许音，然后开始讲话 （如果已设置好）。

4. 松开 **PTT** 键即可接听。

接收紧急组呼

屏幕显示呼叫方身份码为私密号码或一个名称。如果屏幕处于待机状态，则会显示 **“正使用紧急呼叫”**。

GPS 定位服务

概述

您的对讲机的 GPS 定位功能从以地球为轨道的全球定位系统 (GPS) 卫星获得信息，并使用该信息确定对讲机大概的地理位置。位置信息的可用性和准确性 （以及计算这两项所用的时间）根据您使用该对讲机的环境不同而有所不同。

例如，在没有广阔视野的情况下，如室内、被遮挡的位置、高楼之间等，都无法获得 GPS 固定位置。

请参阅**重要 – 必须考虑的事项**

GPS 定位服务能在多方面帮助您的调度员或同事，例如可以更有效的配置资源，以及在启动紧急服务时定位对讲机。

可以配置对讲机在对讲机显示屏上显示位置信息，或配置为将位置信息无线发送给调度员，并显示在控制中心 （请与运营商核对您的对讲机配置）。

重要 – 必须考虑的事项

如果多个卫星提供的信号不足 （通常因为您的 GPS 天线没有处于广阔的视野中），则对讲机的 GPS 功能将不能工作。包括但不限于以下情况：

- 在地下
- 隧道内或停车场中
- 在其它任何金属或混凝土屋顶或结构下
- 靠近大功率对讲机或电视塔
- GPS 天线被遮盖 （如被手或其他物体遮盖）或朝向地面
- 温度超出对讲机操作限制温度的情况下

上述情况下即使可以计算位置信息，也会需要很长时间。因此，在紧急呼叫中应不断向您的调度员报告您的位置。

另外，请注意即使可以从多个卫星获得足够的信号时，您的 GPS 功能也只会提供大概的位置，在您的实际位置的 20 – 100 米范围内。

增强 GPS 性能

有时候您的对讲机的 GPS 功能无法成功完成位置计算。您会看到一条消息，表示您的对讲机无法看到足够可见的卫星。

最大化对讲机的性能，确定固定位置，并注意以下规则：

- 在视野广阔、没有阻挡物的地方使用对讲机时， GPS 功能发挥的最好。请尽量走到室外，远离高楼和植物茂密的地方。
- 调整摩托车位置以增强接收效果，使天线可以顺利接收卫星信号。 GPS 卫星信号传送到您的对讲机天线中的 GPS 天线。手指或其他任何物体不要遮盖天线区域。
- 请在网络覆盖范围内使用。根据您所选择的运营商，网络会为您的对讲机提供信息，帮助您快速精确的确定您的位置。

GPS 启用/停用 (9 2)

1. 在主菜单中，按 **– 9 定位 – 2 接口**。

高亮当前的选择项 （开/关）。显示屏显示：

开 — 定位服务打开

关 — 定位服务关闭

2. 滚动到您的选项并按 。

如果 GPS 已启用，但对讲机未与 GPS 卫星同步，则显示右图屏幕：

范围 1
无 GPS 信号

进入 GPS 定位服务 (9)

要进入 GPS 子菜单，按 **– 9 定位**。

1 位置
2 接口

位置 — 提供实际的位置信息。

接口 — 允许您启用/停用 GPS 定位服务。

对计算出来的位置的准确性进行估计是非常粗略的，可能与报告的大致位置信息的实际准确性有很大差距。

注意

- *差异将根据您的运营商设置的 GPS 配置而不同。*
- *GPS 定位菜单的可用性取决于您的对讲机配置，有关详情请联系您的运营商。*

查看您的位置 (9 1)

1. 要进入子菜单，按 **– 9 定位 – 1 位置**。
2. 会显示有关上一次 （如果存在）计算位置时的以下信息：

   UTC — 上次计算位置的**时间**。

   LAT — 以度数、分、秒显示的**纬度**。

   LNG — 以度数、分、秒显示的**经度**。

   SAT — 用于计算位置的**卫星数**。通常，卫星越多准确性越高。
3. 滚动以查看全屏。

   有关获取最好的位置计算结果的提示，请参阅第 57 页中的“增强 GPS 性能”。
4. 按 返回之前的屏幕。

每次计算完对讲机的大致位置后，最新的位置信息会保存到您的对讲机，即使关闭电源也一直存在。下次查看 “**位置**” 屏幕时会看到该信息。

如果在确定位置过程中接收到对讲机呼叫或提示，“**位置**”屏幕会消失，但您的对讲机会继续尝试确定位置。如果成功确定位置，则在您下次查看 “**位置**”屏幕时会显示新的位置信息。

菜单

进入菜单选项

您可以在呼叫过程中进入菜单选项。如果您在查看菜单时有新的呼叫，则对讲机会退出此菜单。

通过滚屏进入

1. 从任何模式进入菜单，按 。

2. 要滚动到所需的选项（例如：**“2 号码簿”**），请按浏览键。

3. 要输入选项，请按 。

如果子菜单包含更下一层的子菜单，如以下所示的例子那样，请重复步骤 2 和步骤 3。

通过快捷键进入

您可以使用选项旁边的号码作为到达所需子菜单的快捷键。

1. 从任何模式，按 。

2. 输入所需选项的号码键。

例如，在以下的例子中要到达 **“4 内存状态”**，按 ，然后输入选项号码键 **“2 1 4”**。

退出菜单选项

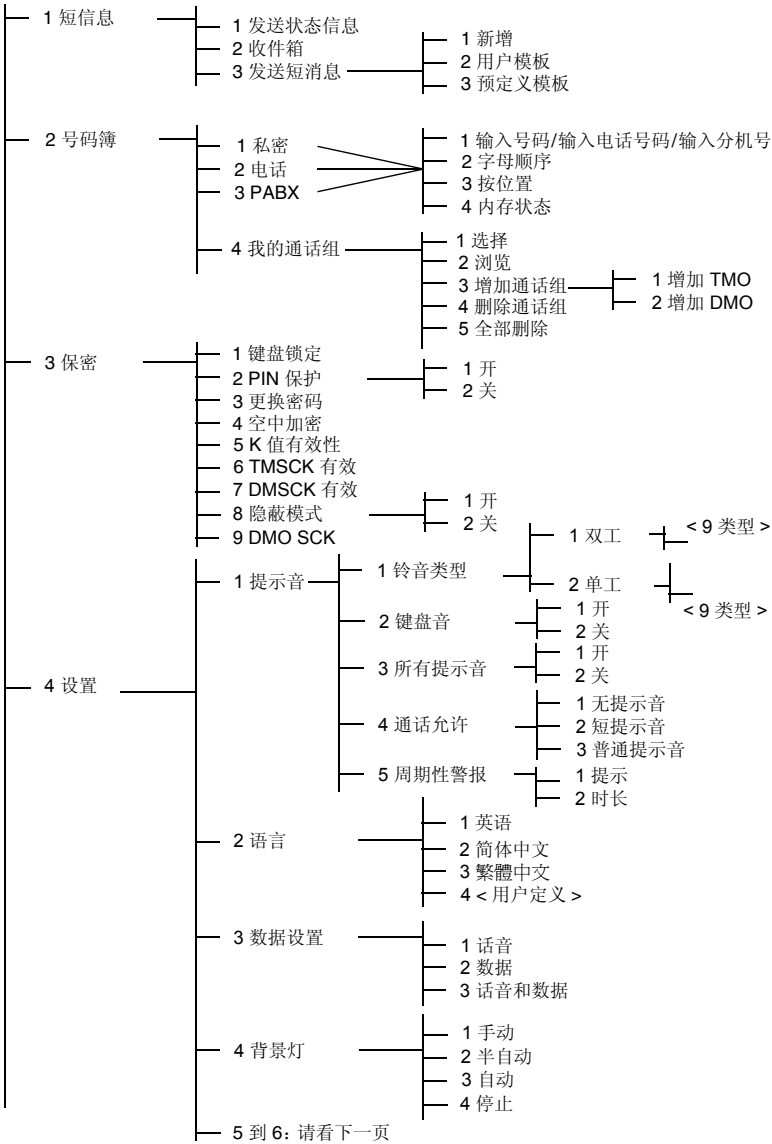
要退出菜单或子菜单，请按 或 。

退出菜单

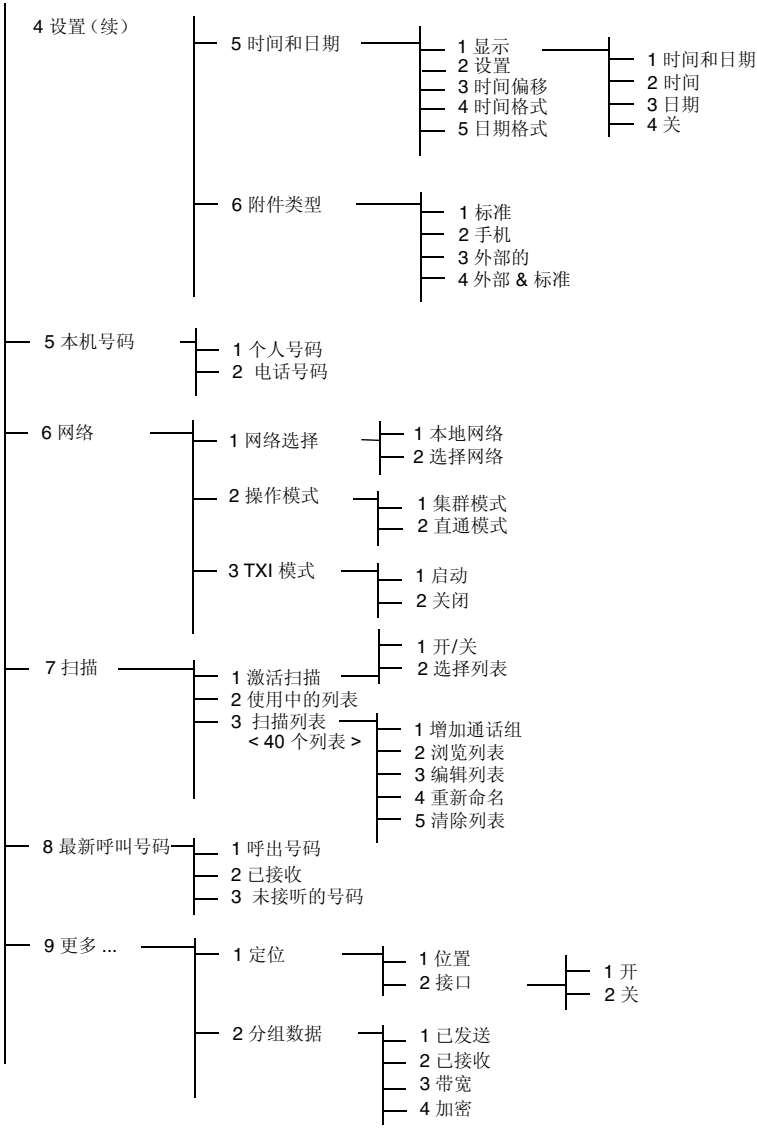
在任何菜单选项中，按住 即可退出菜单。屏幕将返回到进入菜单之前的模式。

注意 *当您的运营商进行了设置，如果在预设的时间内没有任何按键操作，则菜单会超时。*

菜单选项列表


1 短信息
1 发送状态信息
2 收件箱
3 发送短消息
1 新增
2 用户模板
3 预定义模板
2 号码簿
1 私密
2 电话
3 PABX
1 输入号码/输入电话号码/输入分机号
2 字母顺序
3 按位置
4 内存状态
4 我的通话组
1 选择
2 浏览
3 增加通话组
1 增加 TMO
2 增加 DMO
4 删除通话组
5 全部删除
3 保密
1 键盘锁定
2 PIN 保护
1 开
2 关
3 更换密码
4 空中加密
5 K 值有效性
6 TMSCK 有效
7 DMSCK 有效
8 隐蔽模式
1 开
2 关
9 DMO SCK
1 双工
< 9 类型 >
2 单工
< 9 类型 >
4 设置
1 提示音
1 铃音类型
2 键盘音
1 开
2 关
3 所有提示音
1 开
2 关
4 通话允许
1 无提示音
2 短提示音
3 普通提示音
5 周期性警报
1 提示
2 时长
2 语言
1 英语
2 简体中文
3 繁體中文
4 < 用户定义 >
3 数据设置
1 话音
2 数据
3 话音和数据
4 背景灯
1 手动
2 半自动
3 自动
4 停止
5 到 6：请看下一页

菜单选项列表 （续）


4 设置（续）
5 时间和日期
1 显示
2 设置
3 时间偏移
4 时间格式
5 日期格式
1 时间和日期
2 时间
3 日期
4 关
6 附件类型
1 标准
2 手机
3 外部的
4 外部 & 标准
5 本机号码
1 个人号码
2 电话号码
6 网络
1 网络选择
1 本地网络
2 选择网络
2 操作模式
1 集群模式
2 直通模式
3 TXI 模式
1 启动
2 关闭
7 扫描
1 激活扫描
1 开/关
2 选择列表
2 使用中的列表
3 扫描列表
< 40 个列表 >
1 增加通话组
2 浏览列表
3 编辑列表
4 重新命名
5 清除列表
8 最新呼叫号码
1 呼出号码
2 已接收
3 未接听的号码
9 更多 ...
1 定位
1 位置
2 接口
1 开
2 关
2 分组数据
1 已发送
2 已接收
3 带宽
4 加密

菜单

注意 *某些菜单的号码可能与列出的不同。某些选项有可能被运营商激活或关闭，从而导致实际使用中，菜单列表的号码有可能会有些不同。*

短消息 (1)

有关详情，请参阅第 83 页中的 “短消息”。

号码簿 (2)

要进入“号码簿”子菜单，按 **– 2 号码簿**。

```
3 PABX
1✔私密
```

- 此子菜单可以让您添加、搜索、编辑或删除个呼模式呼叫号码簿、电话号码簿和 PABX 号码簿中的条目。

注意 *更新您的个呼模式呼叫号码簿与更新您的电话号码簿或 PABX 号码簿的做法是完全相同的。当使用快捷键以到达有关的子菜单时，请确认所使用的数字序列与第 60 页的菜单选项列表中所示的完全相同。*

注意 *如果您的运营商进行了设置，则不能创建或编辑地址簿条目，或者拨打地址簿中没有的号码。用于创建、编辑和删除号码簿中联系人的菜单项目无法使用。*

- 选择、浏览、增加或删除首选通话组。

```
3 PABX
4✔我的通话组
```

更新个呼模式呼叫号码簿 (2 1)

要进入子菜单，按 **– 2 号码簿 – 1 私密**。

```
4 内存状态
1✔输入号码
```

该子菜单将可以让您编辑您的个呼模式呼叫号码簿。

添加一个号码 (2 1 1)

要进入子菜单，按 **– 2 号码簿 – 1 私密** – 1 输入号码。

注意 ***根据所编辑的号码簿的不同，，“1 输入号码”可以改变为 “1 输入电话号码”或 “1 输入分机号码”。***

1. 按一下 ✓。 MTM800 将提示您向现有的列表添加一个条目。该条目是由一个号码、名称和位置构成的。首先，输入号码和名称。
2. 按 ✓ 确认。然后选择该条目在列表中的位置。
3. 列表中的第一个空白位置 （如果有）会被建议为存储该条目的缺省设定位置。您可以选择其它位置，通过在位置列表中滚动选择或者通过键入该位置的号码即可实现。如果选定的位置已经被使用，您会被提示是否要在该位置上覆盖原有信息。
4. 当该信息被成功存储时，屏幕将会在数秒钟内返回到添加条目屏幕。

搜索号码簿可以按字母顺序 **(📞 2 1 2)** ***或者按位置搜索号码簿*** **(📞 2 1 3)**

1. 要进入子菜单，
   按 📞 **– 2 号码簿 – 1 私密 – 2 字母顺序**或 📞 **– 2 号码簿 – 1 私密 – 3 按位置**。

   1 输入号码
   2✓字母顺序

2. 在按字母顺序的列表中滚屏 （或者在预先存储的列表中直接键入您正在搜索的名称的首字母）。或者，在按位置顺序的列表中滚屏 （或者键入位置号码）。

   在找到号码之后，请按 **PTT** 键发起呼叫。

3. 滚动到您需要的选择：
   - **编辑**条目 （请参阅第 13 页中的 “编辑文本”）。该条目原先的位置会被建议为存储编辑后的条目的缺省设定位置。

     滚动选择位置列表或者键入位置号码选择另一个位置。如果一个位置已经被使用，您会被提示是否要在该位置上覆盖原有的信息。

     当该位置被成功存储时，显示屏将返回列表屏幕。
   - **删除**该条目。显示屏将返回列表屏幕。

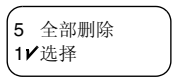
内存状态 **(2 1 4)**

要进入子菜单，按 **– 2 号码簿 – 1 私密 – 4 存储器的使用**。

此屏幕显示还有多少剩余存储空间供号码簿添加新条目。

我的通话组 (2 4)

要进入子菜单，按 **– 2 号码簿 – 4 我的通话组**。



这个子菜单可以让您查看首选通话组列表。

进入我的通话组 **(2 4 1)**

1. 要进入子菜单，按 **– 2 号码簿 – 4 我的通话组 – 1 选择**。

“**我的通话组**”显示为选定的范围别名。现在您可以在首选通话组列表中滚动。按 以选择。

注意 *“我的通话组”范围位于上一个范围之后。滚动到“我的通话组”范围中的最后一个通话组之后将返回到第一个有效的范围。*

在选择“我的通话组”时如果没有通话组处于当前 DMO/TMO 模式，您可能被迫从 TMO 切换到 DMO，或者从 DMO 切换到 TMO。在这种情况下将提示您接受模式改变。

浏览我的通话组 **(2 4 2)**

1. 要进入子菜单，按 **– 2 号码簿 – 4 我的通话组 – 2 查看**。

2. 在首选通话组列表中滚动。

在我的通话组中增加通话组 **(2 4 3)**

1. 要进入子菜单，按 **– 2 号码簿 – 4 我的通话组 – 3 增加通话组**。

2. 选择以下操作之一：

- **增加 TMO** — 您可以选择任何 TMO 范围/通话组。
- **增加 DMO** — 您可以选择任何 DMO 范围/通话组。

从我的通话组中删除通话组 (2 4 4)

1. 要进入子菜单，按 – **2 号码簿 – 4 我的通话组 – 4 删除通话组**。
2. 选择要删除的通话组。在 “删除？”提示屏幕中选择 “**是**” 确认删除。

从我的通话组中删除所有通话组 (2 4 5)

1. 要进入子菜单，按 – **2 号码簿 – 4 我的通话组 – 5 全部删除**。
2. 在 “删除？”提示屏幕中选择 “**是**”确认删除。

保密 (3)

要进入 “保密”子菜单，按 – **3 保密**。

7 隐蔽模式
1✓键盘锁定

锁定按键/解除按键锁定 (3 1)

为了避免偶然碰到按键：

1. 要进入子菜单，按 – **3 保密 –1 键盘锁定**。除了电源**开/关**键之外，
   所有的按键都将被锁定。

注意 *键盘被锁定而有一个呼叫正在呼入时，您仍然可以使用* **PTT** *键、 和 。*

2. 按 3 1 取消对键盘的锁定。

注意 *紧急键是没有锁定的。一旦进入紧急模式，所有键都将被解锁。*

PIN 保护 (3 2)

入网操作保护是由您的运营商设置的：

不能接入网络操作 — 您仅可以发送或接收紧急呼叫。当您下一次开机时锁定生效。

保护入网操作的合法性：

1. 要进入子菜单，按 – **3 保密 – 2 PIN 保护**。
2. 选择 “**1 开**”设定保护 （或 “**2 关**”取消保护）。

3. 在出现 “**密码**？”提示时，输入 4 位数密码 （出厂设置为 “0000”）。为了防止 PIN 码的泄露，屏幕中显示的是星号而不是您所输入的密码数字。屏幕中将显示以下的信息之一：

本机已锁 — 您所输入的密码正确。屏幕返回保密子菜单并显示启动的设置：**1 开**。

本机已解锁 — 您所输入的密码正确。屏幕返回保密子菜单并显示启动的设置：**2 关**。

要在开机后解锁 MTM800，根据提示输入密码。 MTM800 进入缺省的本地模式。

如果您没有输入正确的密码，将显示以下信息：

密码输入错误 — 您将被提示请再尝试。如果三次过后仍不成功，您的 MTM800 将被锁定。

*如何解锁 **MTM800***

屏幕中显示 “**本机已锁定**”。当您的 MTM800 被锁定时，您将不能发送或接收呼叫。您可以输入密码或关闭 MTM800。

要想解除 MTM800 锁定，您可以输入 PUK 码 （个人解锁密码）。PUK 码是一个八位的主控密码，您可从您的运营商获得。

在正确输入 PUK 码之后，您将被提示更换您所忘记的 PIN 码。

当出现 “**新密码**？”提示时，输入一个新的四位数密码，然后重复输入该密码以确认。如果前后两次的输入不相符，您将被提示重新输入，直到新的密码被接受为止。

更改密码 (3 3)

注意 *标准出厂密码是 “0000”。*

更换 PIN 码：

1. 要进入子菜单，按 **– 3 保密 – 3 更换密码**并按 。

2. 当出现 “**旧密码**？”提示时，输入四位数密码。

- 如果您所输入的旧密码不正确，屏幕中将会显示 “**密码输入错误**”，并返回到保密子菜单。

- 如果输入的密码与旧的密码相符，屏幕将提示您输入一个新的四位密码，并让您重复输入该密码以确认。如果前后两次的输入不相符，您将被提示重新输入新密码。

3. 如果新密码被接受，屏幕将返回到 “保密”子菜单。

空中加密开/关 (3 4)

要进入子菜单，按 **– 3 保密 – 4 空中加密**。

该子菜单可以让您查看空中加密功能是否处于开启或关闭状态。

呼叫加密服务是在您和系统之间秘密进行的。

如果加密生效，而您正在接收一个未加密的呼叫时， MTM800 将会显示 “**呼叫未加密**”信息。

注意 *您不能用菜单手动关闭空中加密功能 （如果该功能已开启）。该菜单条目仅仅是用来告诉您此时空中加密功能是否已开启。*

注意 *空中加密功能仅仅可以由运营商激活。*

空中加密密钥删除

请咨询您的运营商，了解此对讲机是否提供了空中界面加密键。

您可以在键盘上按照顺序输入 **00## 从对讲机中删除空中界面加密键。

小心	*使用此功能会关闭对讲机，您的运营商需要重新激活此对讲机。*

K 值有效性 (3 5)

要进入子菜单，按 **– 3 保密 – 5 K 值有效性**。

K （密钥）是基础设施用于鉴定系统内 MTM800 的密钥。这是认证的一部分，可让您的 MTM800 和系统之间保持信息的机密性。

要鉴定 K 值有效性，按 “**确定**”。屏幕中将显示以下的信息之一：

K 值有效 — 基础设施可以鉴定您的 MTM800。

K 值无效 — 基础设施不可以鉴定 MTM800。请与您的运营商联系，重新恢复 K 到您的 MTM800。

TMSCK 有效？ (3 6)

要进入子菜单，按 **– 3 保密 – 6 TMSCK 有效？**。

SCK （定位密码锁）是一个基础设施用来对系统内的呼叫和数据加密的密码锁。通过空中界面加密让您的 MTM800 和系统之间保持信息的机密性。您的 MTM800 须具备一套 SCK。

要对 TMO 鉴定 SCK 值有效性，请按 “**确定**”。屏幕中将显示以下的信息之一：

TMSCK 有效 — 您的 MTM800 能在 TMO 中进行加密操作。

TMSCK 值无效 — 您的 MTM800 不能在 TMO 中进行加密操作。请联络您的运营商以便将 SCK 重新恢复到您的 MTM800 中。

DMSCK 有效？ (3 7)

要进入子菜单，按 **– 3 保密 – 7 DMSCK 有效？**。

SCK （定位密码锁）是一个基础设施用来对系统内的呼叫和数据加密的密码锁。通过空中界面加密让您的 MTM800 和系统之间保持信息的机密性。您的 MTM800 须具备一套 SCK。

要对 DMO 鉴定 SCK 值有效性，请按 “**确定**”。屏幕中将显示以下的信息之一：

直通密码有效 — 您的 MTM800 能在 DMO 中进行加密操作。

直通密码失效 — 您的 MTM800 不能在 DMO 中进行加密操作。请联络您的运营商以便将 SCK 重新恢复到您的 MTM800 中。

隐蔽模式 (3 8)

要进入子菜单，按 – 3 保密 – 8 隐蔽模式。

将隐蔽模式设置为 “开”

选择 “**1 开**”。所有提示音被设为 “关”，所有背景灯和 LED 被立即关闭。

注意 *如果外部扬声器未关闭，则话音会被发送到此扬声器 （如果已连接）。建议您在隐蔽模式下使用耳机等。*

将隐蔽模式设置为 “关”

选择 “**2 关**”。将恢复提示音和背景灯的所有设置。 LED 被打开并显示信息 “**隐蔽模式关**”。

DMO SCK (3 9)

要进入子菜单，按 – 3 保密 – 9 DMO SCK。

选择此选项时会显示 “**密钥版本**”。

通过空中接口加密让在直通模式下工作的 MTM800 与其它在直通模式下工作的对讲机或对讲机组之间保持信息的机密性。

如果您的运营商允许您更换密钥，则可以更改当前密钥。

要更改密钥，如果不在通话中，请选择 “**下一个**”。屏幕中将显示以下信息：**新密钥 ...**

- 选择 “**是**”更换密钥。显示屏上显示 “**更换新密钥**”。
- 选择 “**否**”保留密钥。显示屏上显示 “**密钥版本**”。

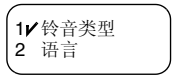
设置 (4)

要进入 “设置”子菜单，按 – 4 设置。

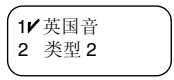
这个子菜单使您能够改变您的 MTM800 设置：按键音、语言、铃音类型、时间、日期或数据设置。

设置铃音类型 (4 1)

此选项可以让您设定呼入的铃音类型。您的 MTM800 针对**双工**和**单工**呼叫提供了九种可选铃音类型。



1. 按 **– 4 设置 – 1 振铃类型 – 1 双工**或 **2 单工**。屏幕中显示了当前所采用的铃音类型（此例子中的铃音类型为 **“1 英国音”**）。

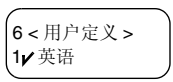


2. 滚动到所需的类型并按 。

您将立刻听到新的振铃。如果有必要，旋转音量旋钮可以调节音量。

设置显示屏的工作语言 (4 2)

要进入子菜单，按 **– 4 设置 – 2 语言**。



屏幕中将显示当前所采用的工作语言。您可以定制您的 MTM800，让其使用英语、简体中文、繁体中文或运营商所定义的语言。工厂的缺省设置是用英语进行操作。工厂的缺省设置是用英语进行操作。

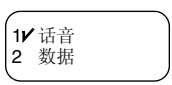
滚动到所需的语言并按 。屏幕中将显示选定的语言并持续数秒钟。

设置数据模式 (4 3)

您可以将 MTM800 连接到一个外设上（例如笔记本电脑或台式电脑）。 MTM800 能够向这个外设发送数据并从这个外设上接收数据。但此外设运行的程序必须符合 TETRA 标准。

要进入子菜单，按 **– 4 设置 – 3 数据设置**。

屏幕中将显示当前设置：



话音 — MTM800 仅接收并发送话音呼叫。

数据 — MTM800 被用作调制解调器。除了紧急呼叫、状态和文本短消息之外， MTM800 将拒绝呼入和呼出话音呼叫。

话音和数据 — 此时 MTM800 被用作一部调制解调器，只不过话音呼叫比数据呼叫具有更高的优先级，并能打断后者的通话。

滚动到所需的设置并按 ✓。

在**数据**模式和**话音和数据**模式下，当您将 MTM800 连接到外设上并且 MTM800 已准备好传送数据后，屏幕中将会出现 “连接了数据终端”图标。数据发送/接收图标表示正在进行数据传输。

当 MTM800 处于以下状态之一时， MTM800 将会结束氛围聆听 (AL) 呼叫，关闭麦克风：

- 处于服务区之外
- 发出数据包呼叫

要退出数据模式，返回到 **“3 数据设置”**并选择 **“话音”**。除非在数据模式下，否则 MTM800 将自动返回到话音通信。

注意 *只有在 TMO 模式下才能提供数据服务。在 TXI 模式下数据服务是被锁定的。*

设置背景灯 (4 4)

要进入子菜单，按 **– 4 设置 – 4 背景灯**。

此选项可以让您配置 MTM800 的背景灯设置 （请参阅第 21 页中的 “使显示变暗”）。

MTM800 的背景灯有四种设置：

手动 (4 4 1)

您可以按 # 通过四步来改变背景灯强度。

半自动 (4 4 2)

按 # 打开或关闭背景灯。按下其它按键是不能将背景灯打开的。背景灯将持续亮着，直到您再次按 # 将其关闭，或者预先设置的背景灯开启时限已过。

自动 (4 4 3)

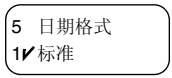
按下任何按键都能打开背景灯。背景灯将持续亮着，直到您再次按 # 将其关闭，或者预先设置的背景灯开启时限已过。

关闭 (4 4 4)

关闭背景灯功能。

设置时间 & 日期功能 (菜单 4 5)

要进入子菜单，按 菜单 **– 4 设置 – 5 时间 & 日期**。



此子菜单允许您控制显示的时间和日期。

时间 & 日期显示设置 (菜单 4 5 1)

要进入子菜单，按 菜单 **– 4 设置 – 5 时间 & 日期 – 1 显示**。

屏幕中将显示当前设置：

1. **时间 & 日期** — MTM800 显示时间和日期。

2. **时间** — MTM800 只显示时间。**日期格式**选项被禁用。

3. **日期** — MTM800 只显示日期。**时间格式**选项被禁用。

4. **关** — MTM800 不显示时间和日期。**时间格式**和**日期格式**选项被禁用。

滚动到所需的设置并按 确认。按 结束 退出。

注意 *时间和日期由基础设施同步。如果不在基础设施信号范围内，则可手动设定。*

设置时间和日期 (菜单 4 5 2)

设置时间和/或日期：

1. 进入 “**设置**”菜单。

2. 选择 “**时间 & 日期**”并按 确认。

3. 择 “**设置**”并按 确认。

输入时间，使用 **2**（上）、**8**（下）键进行调整，使用浏览键或 **4**（左）、**6**（右）键进行浏览。按 确认。按 结束 退出。

设置时差 (菜单 4 5 3)

设置本地时差：

1. 进入 “**设置**”菜单。

2. 选择 “**时间 & 日期**”并按 确认。

3. 选择 “**时差设定**”并按 确认。

输入时差值，使用 **2**（上）、**8**（下）键进行调整，使用浏览键或 **4**（左）、**6**（右）键进行浏览。按 ✓。按 ✗ 退出。

注意 *您可以以 15 分钟的幅度向前或向后调整最多 14 个小时的时差值。*

设置时间格式 (4 5 4)

在 24 小时制和 12 小时制之间更改时间显示格式：

1. 进入 “**设置**”菜单。

2. 选择 “**时间 & 日期**”并按 ✓。

3. 选择 “**时间格式**”并按 ✓。

选择所需的设置，并按 ✓。按 ✗ 退出。

设置日期格式 (4 5 5)

在 DD/MM/YY、 MM/DD/YY 和 DD-MON-YY 之间更改日期显示格式：

1. 进入 “**设置**”菜单。

2. 选择 “**时间 & 日期**”并按 ✓。

3. 选择 “**日期格式**”并按 ✓。

选择所需的设置，并按 ✓。按 ✗ 退出。

设置提示音 (4 6)

要进入子菜单，按 – **4 设置** – **6 提示音**。

此子菜单允许您启动/关闭 MTM800 中使用的键盘音和其它提示音。

1✓键盘音
2 所有提示音

滚动到所需的设置并按 ✓。

屏幕中将显示当前的设置。当设置为 “**开**”时，当您每按一下按键， MTM800 都会发出一声提示音。当设置为 “**关**”时， MTM800 将使键盘提示音保持静音。

1✓开
2 关

有关提示音的详细列表，请参阅第 95 页中的 “提示音”。

设置键盘提示音 (4 6 1)

启动/关闭每次击键的键盘音：

1. 进入 “**设置**”菜单。

2. 选择 “**提示音**”，接着选 “**键盘音**”，然后按 。

3. 使用浏览键滚动浏览设置菜单。

4. 选择需要的设置，然后按 进行选择，或者按 退出。

设置所有的提示音 (4 6 2)

打开/关闭所有的提示音 （键盘提示音和 MTM800 使用的其它的提示音）：

1. 进入 “**设置**”菜单。

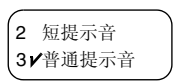
2. 选择 “**提示音**”，接着选 “**所有提示音**”，然后按 。

3. 使用浏览键滚动浏览设置菜单。

4. 选择需要的设置，然后按 进行选择，或者按 退出。

设置通话允许音 (4 6 3)

有三种音调设置：



没有提示音 — 当按下 **PTT** 键时，没有音调发出。

短提示音 — 当按下 **PTT** 键时，发出一声短音调声。

普通提示音 — 当按下 **PTT** 键时，发出工厂设置的缺省音调声。

更换您的通话允许音设置：

1. 进入 “**设置**”菜单。

2. 选择 “**提示音**”，接着 “**通话允许**”，然后按 。

3. 使用浏览键滚动浏览设置菜单。

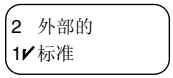
4. 选择需要的设置，然后按 进行选择，或者按 退出。

设置周期性警告 (4 6 4)

用户可以禁用/启动此功能。利用此功能也可设置警报的间隔时间。

设置附件 (4 7)

要进入子菜单，按 **– 4 设置 – 7 附件类型**。



您可以选择如下选项：

标准 — 当连接手持式麦克风和外部扬声器时选择此选项。

手机 — 当连接电话手机时选择此选项。

外部的 — 当连接了外部麦克风和扬声器时选择此选项。

外部 & 标准 — 如果将外部麦克风作为默认选择，则选择此选项，除非按下了 PTT 键。

注意 *为了使用附件，必须由 MS/CPS 用户对其进行配置。*

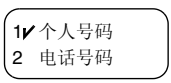
本机号码 (5)

使用这项功能可以在任何时候查看您自己的个人号码或电话号码。

要进入“本机号码”子菜单，按 **– 5 本机号码**。

查看个人号码 (5 1) 或电话号码 (5 2)

要进入子菜单，
按 **– 5 本机号码 – 1 个人号码**或
– 5 本机号码 – 2 电话号码。



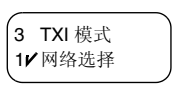
显示的个人号码将无法更改。

要更改显示的电话号码，按 ✔。新的电话号码不能改变 MTM800 在系统中的号码。

网络 (6)

要进入“网络”子菜单，按 **6 网络**。

这个子菜单可以让您选择 MTM800 入网登记的网络，并选择操作模式。

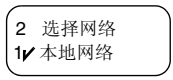


选择您的网络 (6 1)

这个子菜单可以让您选择您的要登记的网络。

选择仅在本地网络入网登记 (6 1 1)

要进入子菜单，按 **– 6 网络 – 1 网络选择 – 1 选择本地网络**。



选择此选项时， MTM800 将登记到可用网络列表中的第一个网络上。

使用选择网络选项进行入网登记 (6 1 2)

要进入子菜单，按 **– 6 网络 – 1 网络选择 – 2 选择网络**。

如果运营商已进行了设置，此选项可以让您从允许入网的网络列表中，按您的意愿手动选定网络，让您的 MTM800 入网登记到该网络上。

屏幕中将显示允许的网络列表。

滚动到所需的网络并按 。

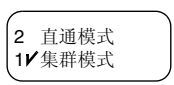
屏幕中显示 “**选中 XXX**”。这里 “XXX”代表所选定的网络的名称。

数秒钟之后，显示屏将返回到 “网络”子菜单中。

注意 *您的运营商会决定是否让您入网登记到列表中的其他网络上。有些通话组在其他网络上可能不存在。*

设置操作模式 (6 2)

要进入子菜单，按 **– 6 网络 – 2 操作模式**。



这个子菜单可以让您选择 MTM800 的工作模式。

要设置操作模式：

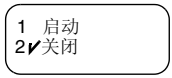
选择 “**2 直通模式**”或 “**1 集群模式**”，然后按 。

注意 *当此对讲机处于 TXI 模式下时，它是不可能从直通模式转入集群模式的。*

注意 *要快速改变操作模式，您可以按* ⟷。

设置禁止传输 (TXI) 模式 (6 3)

要进入子菜单，按 **– 6 网络 – 3 TXI 模式**。



进入禁止发射的地区 （如医院或爆炸性区域）前，应设置为此模式。

启动 TXI 模式：

- 选择 **“1 启动”**，然后按 ✔。

此对讲机将发出一声禁止传输音。屏幕中交替显示通话组名称和信息 “TXI 模式”，并且表示对讲机处于 TXI 模式下的黄色 LED 灯变亮。

注意 *在 TXI 模式下，所有用于发射的菜单选项全被锁定。更换通话组是不能进行的。*

要关闭 TXI 模式，例如当您离开禁止传输的地区后：

- 选择 **“2 关闭”**，然后按 ✔。

如果直通模式是最后选定的模式，对讲机会发出通话允许音，然后返回组呼模式或直通模式。

扫描 (7)

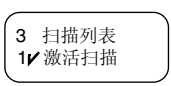
要进入 “扫描”子菜单，按 **– 7 扫描**。

这个子菜单可以让您激活或禁止扫描、查看的扫描列表，并对扫描列表进行编辑。

注意 *在 TXI 模式下，您将无法激活或关闭通话组扫描功能。*

设置通话组扫描 (7 1)

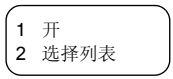
要进入子菜单，按 **– 7 扫描 – 1 激活扫描**。



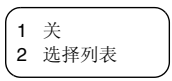
这个子菜单可以让您激活/禁止对预先编入 MTM800 的预设通话组列表进行扫描。只要

在扫描列表中定义了此通话组，并且扫描处于开启状态，MTM800 就以加入任何通话组的通话。

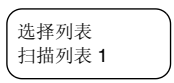
滚动屏幕至您所需的选项并按 ✔。如果设为“**关**”，屏幕将显示以下状态：



当设置为 “**开**”时，屏幕将显示以下状态：



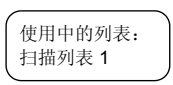
在扫描列表中滚动并按 ✔ 选定另一个扫描列表。



完成设置之后，显示屏将返回到扫描子菜单，或者返回到组呼模式。

查看启动的扫描列表 (7 2)

要进入子菜单，按 **– 7 扫描 – 2 使用中的列表**。



这个子菜单可以让您查看激活的扫描列表。

屏幕将显示以下状态之一：

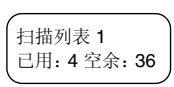
- 如果有一个选定的、未激活的扫描列表。扫描关闭。
- 如果没有选定的扫描列表。扫描关闭。
- 如果有一个选定的、启动的扫描列表。扫描打开。

要查看通话组的状态 （激活或未激活）及其优先级 （如果预先进行了编程），按 ✔，然后在通话组中滚动选择。

编辑扫描列表 (7 3)

要进入子菜单，按 **– 7 扫描 – 3 扫描列表**。

显示屏使您可以在扫描列表中滚动以查看每个扫描列表中通话组的数目。



要编辑或查看扫描列表的内容，再次按 ✔ 并滚动到您的选择。

按 ✓ 以选定以下选项之一：

5 清除列表
1✓增加通话组

1. **“添加”**一个通话组到选定的扫描列表中。每个添加的通话组 （包括一个首选通话组）都有其范围、名称或号码及其优先级 （如果预先进行了编程）。
   - 在范围列表中滚动选择一个范围。如果某个范围内的所有通话组都被列在选定的扫描列表中，该范围将不会在列表中出现。按 ✓ 选择一个范围。
   - 在选定范围内的通话组列表中滚动，选择一个通话组。该通话组列表显示的是没有在扫描列表中的通话组。按一下 ✓。
   - 要为通话组设置一个优先级，在优先级列表中滚动并选择：高、中、或低。

   来自高优先级通话组的呼叫会打断当前较低优先级的通话。

   来自中/低优先级通话组的呼叫不会打断任何当前的通话。
2. 您可以通过滚屏 **“查看”**激活的扫描列表中的内容 （范围、通话组以及优先级，如果预先进行了编程）。

范围 1
通话组 1

3. **编辑**该扫描列表中的通话组。滚动到您的选项并按 ✓。滚动到以下的选项之一：
   - 要从选定的扫描列表中**删除**通话组，选择 **“1 删除通话组”**并按 ✓。屏幕将提示您删除选定的通话组。数秒钟之后，屏幕中将显示选定扫描列表中的下一个通话组。

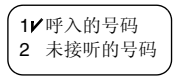
1✓删除通话组
2 优先级

   - 要改变通话组**优先级**，选择 **“2 优先级”**并按 ✓。滚动到选定的优先级并按 ✓。数秒钟之后，显示屏将显示选中通话组的新设置。
4. 要**重新命名**激活的扫描列表，输入一个新的名称 （别名）并按 ✓。屏幕中将显示新的设置。
5. 要从选定的扫描列表中**清除所有**通话组，按 ✓。屏幕中将提示您从选定的扫描列表中删除所有的通话组。数秒钟之后，显示屏将显示选中的扫描列表的新的设置。

菜单

最近呼叫号码 (8)

您可以查看所有的呼叫记录：



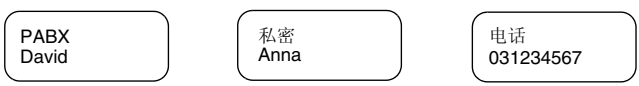
- 已拨呼叫。
- 来电记录 — 您所应答的所有呼叫。
- 未接呼叫 — 您接收到但未应答的呼叫，或者是 MTM800 拒绝接听的呼叫。

每个呼叫的列表最多可以包含所有呼叫模式（电话模式、PABX 或个呼模式）下的十个呼叫号码，最近的呼叫排在列表的最上层。如果有必要，旧的呼叫会被删除以便为新的呼叫腾出空间。虽然一个号码拨叫过多次，在列表中也将只显示一次。

当收到一个未接听呼叫的信息时，MTM800 将显示未接听呼叫列表。

当您正处于一个呼叫的同时又接收到一个呼叫，该呼叫的号码将被写入 “未接听呼叫” 列表中。该列表在呼叫结束时将被自动激活。

1. 要进入 “最近呼叫号码” 子菜单，按 **– 8 最新呼叫号码**。
2. 滚动到所需的呼叫记录并按 。
3. 在呼叫列表中滚动选择。选择 “删除” 从列表中删除一条记录。如果有需要，进入相关菜单以便在号码簿中保存该号码而不保存姓名。请参阅第 62 页中的 “号码簿”。



4. 根据您在列表中所选条目的不同，您可以发起一个电话呼叫、PABX 呼叫或个呼。

注意 *如果您的运营商已限制了对号码簿的访问，则不能拨打号码簿中没有的号码。*

5. 呼叫完成后， MTM800 将自动回到 “接收的/未接听的/已拨的” 呼叫列表中，同时显示呼叫号码并允许您删除此号码或将其保存到号码簿中。

定位 (9 1)

有关详情，请参阅第 56 页中的 “GPS 定位服务”。

分组数据 (9 2)

此菜单可以显示与分组数据连接有关的统计值。如果您的运营商启动了多信道分组数据业务，则屏幕会显示以下信息：

1✔已发送
2 呼入的号码

3✔带宽
4 加密

- 已发数据量
- 已收数据量
- 数据会话的带宽
- 数据加密状态

注意 *只有在 TMO 模式下才能提供数据服务。必须将数据选项设置为 “话音和数据”或 “数据”模式。（参阅第 70 页中的 “设置数据模式”）。*

查看已发数据统计信息 (9 2 1)

1. 要进入 “分组数据”子菜单，按 – 9 更多 ... – 2 分组数据 – 1 已发送。
2. 自显示当前分组数据激活后已发送数据的千字节数。

已发数据：
100 KB

3. 按 在两个屏幕之间切换。

   数据吞吐量：9 kbps （举例）— 活动分组数据会话。

   数据吞吐量：N.A. — 备用分组数据会话。

数据吞吐量：
9 kbps

4. 按 退出。

查看已收数据统计信息 (9 2 2)

1. 要进入 “分组数据”子菜单，按 – 9 更多 ... – 2 分组数据 – 2 已收数据。
2. 自显示当前分组数据激活后已接收数据的千字节数。

已收数据：
100 KB

3. 按 ✓ 在两个屏幕之间切换。

数据吞吐量：9 kbps （举例）— 活动分组数据会话。

数据吞吐量：N.A. — 备用分组数据会话。

数据吞吐量：
9 kbps

4. 按 ✕ 退出。

查看带宽状态 (📶 9 2 3)

带宽百分数表示在数据会话过程中分配的时隙数 （“信道”）。

1. 要进入 “分组数据”子菜单，按 📶 **– 9 更多 ... – 2 分组数据 – 3 带宽**。

2. 显示带宽百分数：

75% （举例）— 活动分组数据会话，

N.A. — 备用分组数据会话。

带宽：
75%

注意

您的运营商已经设置了最大时隙数以便分配给 1、 2、 3 或 4。带宽百分数将可能的时隙数 （1、 2、 3 或 4）当作是 100%。例如：

如果分配了 4 个可能时隙中的 2 个时隙时显示 50%。

如果分配了 4 个可能时隙中的 4 个时隙时显示 100%。

如果对 1 个可能时隙进行了分配则显示 100%。

3. 按 ✕ 退出。

查看加密状态 (📶 9 2 4)

1. 要进入 “分组数据”子菜单，按 📶 **– 9 更多 ... – 2 分组数据 – 4 加密**。

2. 显示当前分组数据会话的加密状态：

- **已加密**
- **未加密** （清除）

分组数据
已加密

3. 按 ✕ 退出。

短消息

概述

短消息功能使您可以

- 发送状态信息，
- 发送文本短消息 （任何文本或用户定义文本或预先定义模板的文本），以及
- 接收文本短消息。

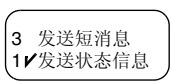
状态信息是通话组成员认可的、对应于列表中预先设定消息的号码。文本短消息是短文本，最多只能包含 140 个字符。

注意 *如果您的运营商进行了设置，就只能发送短消息到号码簿中保存的个人号码。*

进入短消息子菜单

按 **– 1 短消息** 进入 “短消息”子菜单。

子菜单允许您



- 发送状态信息，
- 阅读文本短消息，
- 发送文本短消息。

滚动屏幕到您的选项，然后按 以到达下一个显示。

注意 *当 MTM800 处于短消息子菜单时，它也可以接收呼叫。*

注意
- *在 TXI 模式下不能发送状态信息或文本信息。*
- *在直通模式下呼叫时不能发送状态信息或文本信息。*

接收到新短消息时，屏幕中的 图标闪烁 （当您进入收件箱时此图标停止闪烁）。

注意 *如果您的运营商已设置，当您在通话时接收到一个新短消息，MTM800 将发出 “新邮件到达”的提示音。*

MTM800 自动进入收件箱 ，图标不闪烁。

发送状态信息 (1 1)

1. 切换到您要发送状态信息的通话组。
2. 从任何模式中按 ，或
   按 **– 1 短消息 – 1 发送状态信息**。
3. 在本例中， **Lunch** 是上一次发送的状态。如果您想发送一个不同的状态，可以在预先编程的状态列表中滚动选择或输入状态号码。要停止滚动，请按 。显示屏将返回 **“选择状态”** 信息屏幕。

注意 *从状态子菜单不能在用户状态范围内输入有效的 5 位数状态号码。*

4. 按 **PTT** 键即可发送状态信息。

   如果您的运营商已经启用了目标状态功能，则按 可选择将您的状态作为个呼或组呼进行发送。

   要输入个呼模式呼叫的地址，您可以键入接收者的号码或滚动查看号码列表，或是按 搜索号码簿。对于组呼，可以在所连接的范围内选择通话组，然后按 **PTT** 键发送状态信息。

   屏幕中将显示以下提示信息之一：

   状态信息已发送 — 显示屏退出状态模式。

   状态信息发送失败 — 屏幕在几秒钟内将返回之前的显示状态。

注意 *请等到收到提示信息之后再发送新的状态。*
如果您从一个繁忙的通话组进入状态菜单，话音将被暂停一会儿以便传输您的状态信息。

注意 *如果接收到紧急组呼，此对讲机将立即加入这个新的紧急呼叫。*

注意 *如果您的运营商进行了设置，就不能发送状态信息到没有在号码簿中保存的个人号码。*

使用收件箱 (1 2)

收件箱列表包含新收到的和以往收到的文本短消息。无论任何时候，收件箱列表最多可以包含 20 条信息。

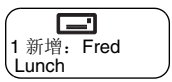
要进入收件箱，按 或 **– 1 短消息 – 2 收件箱**。

该收件箱列表的状态将显示几秒钟：

- 新短消息到达，列表已满。按 以确认。
- 新短消息到达 — 按任意键确认或等候几秒钟。屏幕将显示“刚收到的信息”。
- 没有新短消息或没有旧短消息 — 屏幕在几秒钟内将返回之前的显示状态。

新信息

屏幕中将显示刚收到的短消息：其号码、状态 （新）、发送者和文本短消息的第一行。

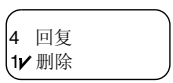


按以下任何键：

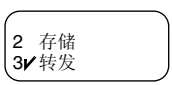
- 浏览键以便迅速地浏览文本短消息。
- 按 阅读完整短消息。阅读一条现存文本短消息将使其状态从新变为旧。
- 浏览键，在内容超过一行的短消息中滚动 （在显示行末尾的箭头表示该短消息继续）。

在阅读了此短消息后，按 并且：

- 滚动到 **“删除”** 并按 删除此短消息。屏幕将显示下一条短消息 （如果有）或显示短消息子菜单。
- 滚动到 **“存储”** 并按 在模板列表中将信息存储为模板。



- 滚动到 **“转发”** 并按 激活编辑模式。旧的短消息文本将作为缺省的短消息。按下 **PTT** 键或 发出呼叫。输入接收者的号码，并且按下 **PTT** 键完成该呼叫。
- 滚动到 **“回复”** 并按 激活编辑模式。旧的短消息文本将作为缺省短消息，并且将发送者作为回复短消息缺省的接收者。按 **PTT** 键开始呼叫信息发送者。



按 返回之前的显示屏幕。

已读过的信息存放在收件箱内。

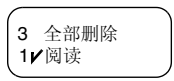
此时立即显示新文本短消息。如果此短消息为未读短消息，再次进入收件箱可以查看更多的新短消息。

处理旧文本短消息

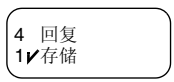
滚动到一条旧文本信息。

请按 并滚动到您的选项：

1. 滚动到 “**阅读**”并按 显示所选中的旧信息。



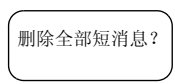
在阅读了此短消息后，您可以按 然后：



- 滚动到 “**存储**”并按 在模板列表中将信息存储为模板。
- 滚动到 “**删除**”并按 删除此短消息。当屏幕显示 “**短消息已删除**”时，当前的短消息将被从收件箱中删除。屏幕将显示下一条信息 （如果有）或显示信息子菜单。
- 滚动到 “**转发**”并按 激活编辑模式。旧的短消息文本将作为缺省短消息，并且将发送者作为回复短消息缺省的接收者。按下 **PTT** 键发出呼叫。
- 滚动到 “**回复**”并按 激活编辑模式。旧的短消息文本将作为缺省短消息，并且将发送者作为回复短消息缺省的接收者。按 **PTT** 键开始呼叫信息发送者。

2. 滚动到 “**删除**”并按 删除此短消息。

3. 滚动到 “**全部删除**”并按 ，将显示以下信息：



- 选择 删除收件箱中的所有短消息。
- 选择 返回以前的显示。

接收文本短消息

当一个新短消息到达时，屏幕中的 图标将会闪烁。当您进入收件箱时该图标将停止闪烁。

“新邮件到达”信息将显示数秒。

如果您的运营商将您的 MTM800 设置成 “手动模式切换”，在新短消息到达时， MTM800 将停留在短消息到达前的模式。按 **1 2** 进入收件箱。

如果您的运营商将 MTM800 设置为 “自动模式切换”，您的 MTM800 将自动进入收件箱，并且 图标 将不再闪烁。

注意 *有关短消息提示的详情，请参阅 “提示音”菜单选项中的设置（第 73 页）。*

注意 *如果您的运营商已经启动了 PTT 键对讲功能，那您就可以通过按 PTT 键显示一个列表，列出信息发出者 （别名或号码）和出现在文本信息中的**所有**号码。然后可以呼叫所选号码。否则，PTT 键将会被转到当前所选择的通话组。*

注意 *如果您的运营商进行了设置，就不能回叫号码簿中没有的号码。*

发送文本信息 (**1 3)**

此功能使您可以发送新的信息，可以按照用户自定义的模板发送信息，或按照预定义的模板发送信息。

预定义模板是由运营商编程写入 MTM800 中。用户自定义模板则是收件箱中的短消息，或者是您选定并存储在您的 MTM800 存储器中的发件箱中的短消息。用户定义的短消息也可以编程并写入您的 MTM800 中。

您可以在发送信息之前编辑您的信息。

当此对讲机处于待机状态或在组呼/紧急呼叫/广播呼叫 （如果设置）过程中，您可以发送短消息。

如果已经设置，将有信息提示您有呼入的组呼/紧急呼叫/广播呼叫，您可以加入此呼叫，或者结束此呼叫。

注意 *在直通模式下，文本信息在连接到当前通话组的频率上发送。发送信息前，请确保您选择了需要的通话组。有关选择通话组的详情，请参阅第 24 页中的 “选择通话组”。*

在编辑文本短消息的过程中或者在这之前接收组呼/紧急呼叫/广播呼叫

您可以在通话过程中开始编辑短消息。

或者您也可以在开始编辑短消息后，接收一个呼叫并在编辑此短消息的同时接听此呼叫。

要在短消息编辑过程中接收呼叫，按 **PTT** 键。

在组呼过程中发送文本短消息 （如果已设置）

按 **PTT** 键。可能会发生以下情况之一：

- 在开始编辑短消息前呼叫开始。此对讲机将放弃呼叫并发送短消息。如果呼叫仍然在继续，此对讲机将再加入此呼叫。
- 在开始编辑短消息后呼叫开始。此对讲机将放弃呼叫并发送短消息。然后此对讲机将返回编辑模式。
- 在开始编辑短消息之前或之后呼叫开始。此对讲机将停留在此呼叫中，同时发送短消息。

在紧急呼叫/广播呼叫过程中发送文本信息 （如果设置）

按 **PTT** 键。可能会发生以下情况之一：

- 在开始编辑短消息前呼叫开始。此对讲机将放弃呼叫并发送短消息。然后此对讲机将返回编辑模式。
- 在开始编辑短消息后呼叫开始。此对讲机将停留在此呼叫中，同时发送短消息。

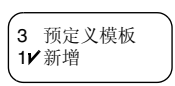
*在编辑文本短消息过程中接收个呼/电话呼叫/**PABX** 呼叫*

将自动中断短消息编辑，在此呼叫后再恢复短消息编辑。

进入发件箱

按 **– 1 短消息 – 3 发送短消息**。

将显示 “发送短消息”子菜单。



编辑、存储和发送一条新信息

1. 滚动到 “**1 新增**” 并按 ✔。将打开一个空白屏幕。您可以使用键盘输入或编辑您的短消息。请参阅第 13 页中的 “编辑文本”。

2. 请按 ✔ 并滚动到您的选项：

- 滚动到 “**发送**”，然后按 ✔。

这是一条
新短消息

- 如果您的运营商进行了设置，您可以发送短消息到一个个人号码或一个通话组。

1✔私密
2 通话组

- 要选择邮件的接收者，您可以在地址列表中滚动并选择 （请参阅第 63 页），或者直接输入接收者地址。

按 **PTT** 键即可发送信息。屏幕中将显示以下提示信息之一：

短消息已发送 — 表示已成功发送并接收短消息。

短消息失败 — 没有接收到短消息。

- 滚动到 “**存储**” 并按 ✔ 将短消息加入到模板列表 （分配给该短消息的号码是最小的可用号码 – 在本例中模板号码是 3）。

储存到
模板 3

注意 *如果您的运营商允许，您可以从繁忙的通话组编写和发送文本短消息。在编辑新短消息或模板时通话组的话音将被暂停。在这段时间内可以接收新的紧急呼叫，并且将中止短消息编辑。如果接收到的是新的个呼模式呼叫/电话呼叫，当呼叫完成后将恢复此短消息。*

发送、编辑和删除用户定义的模板

用户定义的邮件模板是指存储在 “用户模板列表” 中的收件短消息、新建短消息、已发送短消息或已编程短消息，可以恢复这些短消息并进行发送。

1. 滚动到 “**2 模板**” 并按 ✔。将显示模板列表中的第一个模板。

注意 *模板编号可能是不连续的。*

2. 使用浏览键在 “用户模板列表”中滚动，选择所需的模板。
3. 请按 ✓ 并滚动到您的选项：
   - 滚动到 “**发送**”并按 ✓ 选择邮件的接收者，您可以在地址列表中滚动并选择 （请参阅第 63 页），或者直接输入接收者地址。
   - 按 **PTT** 键即可发送信息。屏幕中将显示以下提示信息之一：

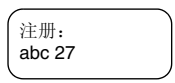
     短消息已发送 — 表示已成功发送并接收短消息。

     短消息失败 — 没有接收到短消息。
   - 选择 “**编辑**”并按 ✓，根据您的需要编辑模板中的信息。请参阅第 13 页中的 “编辑文本”。
   - 滚动到 “**删除**”并按 ✓ 确定删除当前的模板。

发送和编辑预定义的模板

预定义的邮件模板是指运营商预先编程并写入您的 MTM800 中的模板。您只能对预定义模板进行有限的编辑，然后发送它。但是您不能存储已编辑的模板，也不能从 “用户模板列表”中删除它。

1. 滚动到 “**3 预定义模板**”并按 ✓。
   将显示预定义模板列表中的第一个模板（如果没有预定义的模板，将显示信息 “**未预先定义**”。



2. 使用浏览键在 “用户模板列表”中滚动，并选择所需的模板（在本例中，显示的是一条注册信息）。

注意 *只能从编辑屏幕发送预定义信息。*

3. 按 ✓。这时信息已进入预定义信息编辑器。
4. 输入您的信息。
   - 要前移光标 – 按 ▶。
   - 要前移光标 – 按 ◀。
   - 按 ✕ 使用一个 “空格”替换光标位置左边的字符，然后左移光标。

- 在光标的当前位置按所需的键获得所需字符。
- 在此编辑器中 – 长按 (#) 键执行 “大写锁定”功能。

注意 *预定义短消息的地址也是由运营商在编程时定义的，所以不能改变它。*

5. 按 **PTT** 键即可发送信息。屏幕中将显示以下提示信息之一：

短消息已发送 — 表示已成功发送并接收短消息。

短消息失败 — 没有接收到短消息。

发送短消息后，您的 MTM800 将返回到预定义模板选择屏幕。

注意 *当 MTM800 正等待短消息确认时，您不能发送其它短消息。*

如果 ... 怎么办

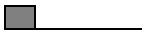
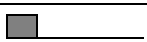
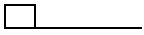
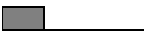
您的 MTM800 闪烁显示以下信息：

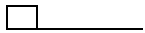
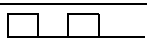
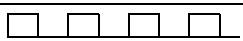
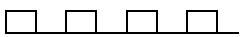
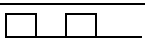
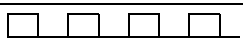
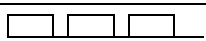
短消息	信息描述
..... 模式 号码表空白	在滚动列表中没有已编程的条目。输入此条目。
...-收到-	呼叫被接收但是未被应答或是被拒。
加入通话组失败	对讲机无法执行通话组加入操作。尝试其它通话组。
认证失败	此对讲机不能注册到鉴权系统 （例如，鉴权键不正确或对讲机的鉴权功能被关闭）。
呼叫取消	信道有误。请稍后再试。
呼叫结束	信道有误。请稍后再试。 被叫对讲机结束呼叫。
呼叫被抢占	信道被有优先权的呼叫占用。
紧急麦克结束	紧急麦克风时限已过，或用户已按 PTT 键取消紧急麦克风功能。
紧急麦克打开	紧急麦克风功能激活，此对讲机将自动传输紧急话音。
空条目	您拨打的快速拨号号码不存在，或者号码存在但通话组未选择此号码。
设备故障错误 ...	自检失败。您的对讲机检测到一个操作故障。请记录错误代码。关闭对讲机并与维修部门联系。
通话组已存在	您试图增加的通话组已存在于 “我的通话组”中。
组呼模式没有通话组	检查选定的通话组，并且不要选择 “没有通话组”。如果选择了正确的通话组，则是连接故障。对讲机将与当前通话组脱离连接。请稍候，直到该对讲机与当前通话组的连接重新建立为止。
无效号码没有内容	输入的号码无效。
有限的服务	允许进行紧急呼叫、紧急告警和移动操作 （例如连接通话组）。所有其它呼入和呼出以及数据业务都受到了限制。
未加入列表	扫描列表中的所有通话组都没有连接上。
已加入部分列表	扫描列表已经被启动，但并非所有通话组都已与它连接上。
短消息已发送	邮件已成功发送。
信息失败	邮件发送失败。
我的通话组为空	当 “我的通话组”为空时您不能查看/删除通话组。

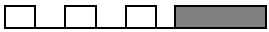
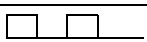
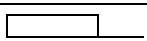
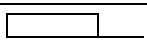
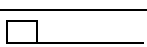
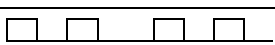
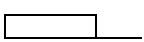
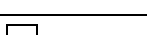
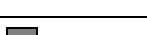
短消息	信息描述
我的通话组已满	您不能在 “我的通话组”中增加通话组，因为 “我的通话组”包含的通话组数量已达到允许的最大数。
网络故障	网络有故障。请稍后再试。
无应答	被叫方没有应答。
没有内容	号码簿列表是空白的。
没有通话组	• 当您超出了所选定通话组的正常覆盖范围时会显示此信息。请选择在您的工作范围内有效的其他通话组。 • 表示从 “我的通话组”范围中删除一个首选通话组。
无 GPS 信号	请检查 GPS 天线是否已正确连接，卫星的可见度是否充分。
没有新或旧的短消息	收件箱是空白的。
不在服务区	此对讲机超出了覆盖范围。
禁止发起呼叫	如果您的运营商进行了设置，您将不能拨打电话簿中没有的号码。
禁止传输	• 松开 PTT 键，稍后再试。 • 如果您的运营商进行了设置，您将不能发送文本短消息或状态信息到电话簿中没有的号码。
只有一个条目	在滚动列表中只有一个编程的条目。
过热	此对讲机将自动关闭。请把它关闭五分钟。
占线	被叫的对讲机正忙。
对方不在系统内	被叫对讲机不在信号覆盖范围之内。请稍后再试。 被叫对讲机已关闭。请稍后再试。
请重试	MTM800 无法建立呼叫。
请等待连接	在开机或网络重新连接时出现此信息。
注册失败	此对讲机无法在该系统入网登记。请稍后再试。请与您的运营商联系。
服务被拒绝	无效号码。请与您的运营商联系。
没有这项服务	当前网络不提供这项服务。
服务受限制	您的运营商限制此项服务，或者您没有购买此项服务。
只有一个通话组	在滚动列表中只有一个编程的条目。
通话组 ... 已添加	通话组名称已添加到首选通话组范围。
稍后再试	所要求的服务暂时无法提供。
机器已禁用	请与运营商联系确认。

短消息	信息描述
设备正常警告 ...	自检故障。您的对讲机检测到一个小故障。此对讲机仍然可以正常工作。如果再次发生此故障，请记下错误代码并与维修部门联系。
设备未连接	此对讲机无法连接到系统中。所选通话组可能没有在系统中定义。请更换通话组再试。
等待紧急麦克打开	紧急麦克风功能被启动，但是已将信道传输许可授予了相同通话组中的另一个紧急呼叫。在这段时间内此对讲机的麦克风不工作，但经过预定时间后，此对讲机将自动尝试获得通话许可。

提示音

□ = 高音； ■ = 低音		
说明	**类型**	**重复次数**
空闲		
• 返回初始屏幕 • 当旋转计时器超过时返回到旋转音量模式 • 返回覆盖范围 • 返回全服务状态		一次
可以发送		一次
按键无效		一次
• 按键有效 • MTM800 开机时自检失败 • 从“不在服务区”状态变为“在服务区”状态		一次
来电		
• 呼叫清除告警音 • 呼叫类型改变		一次
呼叫等待提示音，表示电话或个呼正被挂起		每隔六秒钟重复一次，直到呼叫终止。
数据已连接或 数据已断开。		一次
您一按 PTT 键会听到通话允许音。	 	一次（正常提示音） 一次（短提示音）
您一按下 PTT 键就会听到不通过网关的通话允许音。该提示音表示网关不再可用。	 	两次 一次

□ = 高音； ■ = 低音		
说明	**类型**	**重复次数**
• 通话禁止 • 系统忙 • 限时器超时 • 被叫 MTM800 不可用或正忙。		直到您松开 PTT 键为止
因为网络原因呼叫被断开或失败		一次
拨叫号码错误。		无提示音
进入 DMO 模式		一次
退出 DMO 模式		一次
本站集群 — 进入/退出		一次
电话呼叫的振铃回音（发送）		每隔三秒重复一次，直到被叫用户应答或拒绝呼叫。
电话忙		每隔 0.5 秒重复一次
状态短消息已发送给调度员或失败。		两次
有呼叫正在呼入		
状态信息已被调度员确认		四次
您的 MTM800 不通过网关接收到组呼。（仅用于设置）		一次
接收到高优先级的组呼		一次
发送或接收到紧急告警		两次
紧急告警失败		四次
接收到紧急呼叫		一次
电话振铃 （接收） 全双工个呼	按照铃音类型子菜单设置。	直到您应答或拒绝呼叫为止。
接收到个呼	按照铃音类型子菜单设置。	直到您应答或拒绝呼叫为止。

□ = 高音； ■ = 低音		
说明	**类型**	**重复次数**
个呼主叫方的振铃		直到呼叫被应答为止
半双工私密先占式优先权呼叫 (PPC) 振铃。		每隔 4 秒钟重复一次，直到呼叫被应答或拒绝
全双工私密 PPC 振铃		每隔 4 秒钟重复一次，直到呼叫被应答或拒绝
有限的服务		当进入有限的服务状态时发出一声提示音
接收到新邮件		一次
新组呼		一次
概述		
音量设置 （耳机、键盘、扬声器）		连续不断
音量设置 （铃音）		当设置音量时
禁止传输 (TXI)		一次
旋转旋钮音		当从列表切换到音量时响一次
电池电量低告警		重复次数
呼叫中的 DTMF (0-9, #, *)	DTMF 	连续不断，直到该用户松开按键为止
GPS		
GPS 覆盖范围内		一次
GPS 覆盖范围外		一次

注意 *对于未接呼叫和未读短消息，运营商可以设置为周期音。*

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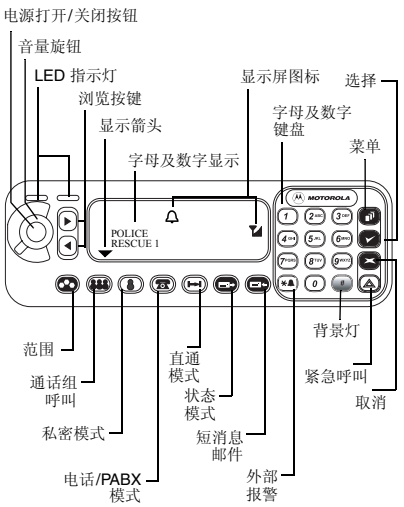
備注

MOTOROLA

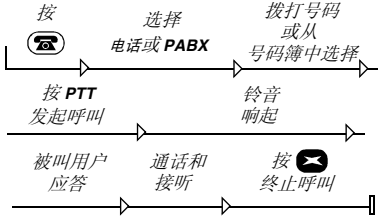
MTM800

摩托车对讲机

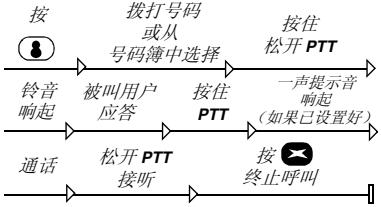
快速参考指南



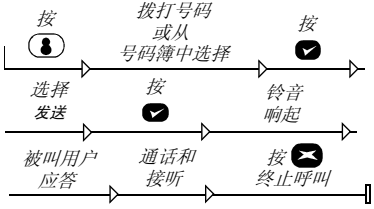
发起电话/PABX 呼叫



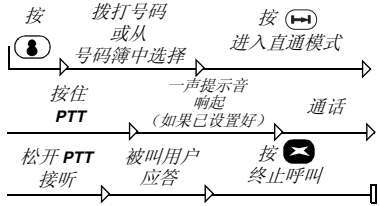
发起 TMO 个呼模式呼叫



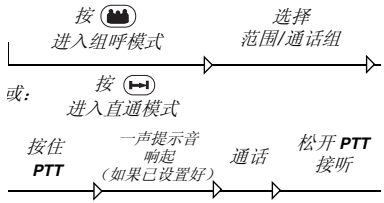
发起 TMO 全双工个呼模式呼叫



发起 DMO 个呼模式呼叫



发起 TMO 或 DMO 组呼



发起紧急组呼 （在 TMO 模式）

按住 。此时将自动发送紧急告警。

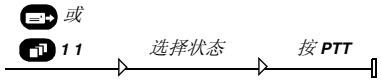
当处在紧急模式时，按住 **PTT** 讲话。如果使用紧急麦克风功能，等到显示 **“紧急麦克打开”**信息，并且不需按下 **PTT** 就可以讲话。

按住 可退出紧急模式。

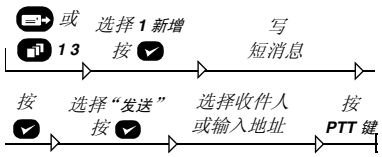
应答呼叫

您的 MTM800 切换到呼入的模式，然后开始振铃。请按 **PTT** 键应答呼入。

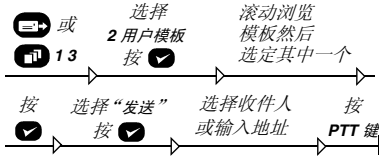
发送状态短消息



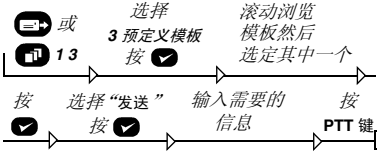
发送新的短消息



发送用户定义的短消息

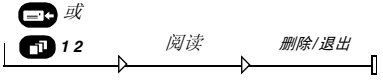


发送预定义短消息

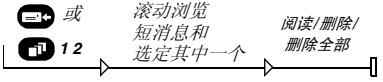


处理新文本短消息

屏幕中的 图标将闪烁，同时 MTM800 发出一声提示音。有关详情，请参阅用户手册中的菜单信息部分的内容。



处理旧文本短消息



重拨上次呼叫号码

按 **PTT** 键呼叫上次呼叫的号码。

使用菜单

- 进入菜单：按 。
- 滚动浏览菜单：
  按 ◄ 或 ►。
- 选择菜单选项：按 。
- 退出菜单：按 。

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General Information

Safety Information

CAUTION	*Before using these products, read the operating instructions for safe usage contained in the Product Safety and RF Exposure booklet (Motorola Publication part number 6866537D37 for Europe, Middle East and Africa or 6804112J96/6804113J25 for Asia and Pacific) enclosed with your terminal.*

The accessories are restricted to occupational use only to satisfy ICNIRP RF energy exposure requirements. Before using the products, read the RF energy awareness information and operating instructions in the Product Safety and RF Exposure booklet (Motorola Publication part number Safety Leaflet 6866537D37) to ensure compliance with RF energy exposure limits.

Keep this **User Guide** and the **Product Safety and RF Exposure booklet** in a safe place and make it available to other operators, and in case, that the accessories are passed on to other people.

Disposal Information

The **European Union's Waste of Electrical and Electronic Equipment (WEEE)** directive requires that products sold into EU countries must have the crossed out trashbin label on the product (or the package in some cases). As defined by the WEEE directive, this cross-out trashbin label means that customers and end-users in EU countries should not dispose of electronic and electrical equipment or accessories in household waste.

Customers or end-users in EU countries should contact their local equipment supplier representative or service centre for

information about the waste collection system in their country.

Copyright Information

The Motorola products described in this manual may include copyrighted Motorola computer programs stored in semiconductor memories or other media. Laws in the United States and other countries preserve for Motorola certain exclusive rights for copyrighted computer programs including, but not limited to, the exclusive right to copy or reproduce in any form the copyrighted computer program. Accordingly, any copyrighted Motorola computer programs contained in the Motorola products described in this manual may not be copied, reproduced, modified, reverse-engineered, or distributed in any manner without the express written permission of Motorola. Furthermore, the purchase of Motorola products shall not be deemed to grant either directly or by implication, estoppel, or otherwise, any license under the copyrights, patents or patent applications of Motorola, except for the normal non-exclusive license to use that arises by operation of law in the sale of a product.

Product Specific Information

- Max RF Power 3 Watts
- Max. Speaker Load 10 Watts at 4 Ohms
- Antenna Impedance 50 Ohms
- Ambient Temperature Range -30 °C to +60 °C

WARNING

If the terminal is in service the surface temperature can rise up to 70 °C.
Do not touch the hot surface

- Operating Time Continuous / Intermittent

NOTE *In general, the terminal transmit and receive time (operating cycle time) is determined by the communication system. On overload, respectively on extensive use beyond the systems specifications at high ambient temperatures, the terminal is protected by its thermal control, which cuts down the RF output power, thus reducing the terminal coverage range.*

Icon Conventions

The document set is designed to give the reader more visual cues. The following graphic icons are used throughout the documentation set. These icons and their associated meanings are described below.

WARNING *The signal word Warning with the associated safety icon implies information that, if disregarded, could result in death or serious injury, or serious product damage.*

CAUTION *The signal word Caution with the associated safety icon implies information that, if disregarded, may result in minor or moderate injury, or serious product damage.*

CAUTION *The signal word Caution may be used without the safety icon to state potential damage or injury that is not related to the product.*

NOTE *Notes contain information more important than the surrounding text, such as exceptions or preconditions. They also refer the reader elsewhere for additional information, remind the reader how to complete an action (when it's not part of the current procedure, for instance), or tell the reader where something is located on the screen. There is no warning level associated with a Note.*

Getting Started

Congratulations on your purchase of the Motorola MTM800. Enhanced TETRA features and state-of-the-art technology help to keep you in constant touch with all of your work and personal contacts.

You can operate your MTM800 in English, Simplified Chinese, Traditional Chinese, or in a language defined by your Service Provider. The default setting from factory is English. For more information, please see “Setting the Display’s Working Language” on page 79.

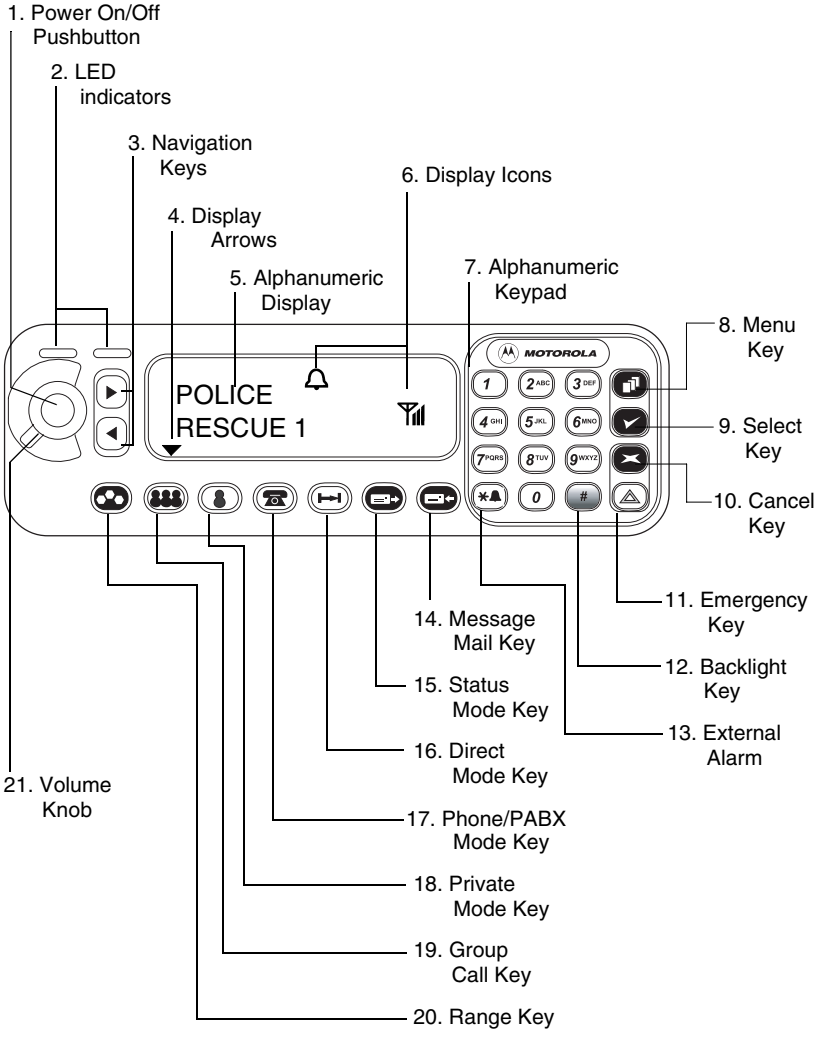
How to Use this Guide

This guide describes the MTM800 features as setup and pre-programmed at the factory.

Your Service Provider or your organisation may have customised your MTM800 to optimise its use for your individual needs. Check with your Service Provider or organisation to find out the differences from this guide. Throughout the text in this publication, you will notice the following special notations used to highlight certain information or items:

Example	Description
	Key presses are shown as a key symbol.
2 2	Use alphanumeric keys as shortcuts to reach the required sub-menus. In this example, press in sequence, not simultaneously.
3 ✔Voice Only	Indicates the active setting.
Status Sent	Information appearing on the MTM800 display are shown in special print.
	A Note contains additional information which is relevant to the item feature.
6 <User Defined>	Indicates a prompt or message configured by your Service Provider

Controls and Indicators



Item	Description
1	**On/Off Pushbutton** Turns the MTM800 on and off. (See page 10.)
2	**LED** Indicators Indicate the service state.(See page 10.)
3	**Navigation Keys** Press to move up or down through options and lists, such as message or phone address book lists.
4	**Display Arrows** When relevant, point to keys located below the alphanumeric display, indicating the present mode. (See “Examples of MTM800 Mode Start Screens” on page 13.)
5	Alphanumeric **Display** Backlit view of two lines of characters or digits (up to 14 characters or digits per line).
6	Display **Icons** Show additional information and MTM800 status. (See page 8.)
7	Alphanumeric **Keypad** Enter numbers and alphabetic characters. (See page 14.) The function of these keys is programmable by the Service Provider. (See page 17.)
8	**Menu Key** Press to bring up menu options. Use navigation keys to scroll. (See page 13.)
9	**Select Key** Press to select the displayed option or to confirm an entry.
10	**Cancel Key** Press to cancel/clear/exit the current activity or entry.
11	**Emergency Key** Initiates Emergency mode and sends Emergency Alarms. (See page 14.)
12	**Backlight Key** Dims and intensifies the radio’s backlight (four intensity options). (See page 25.)
13	**External Alarm Key** Used to activate and deactivate the External Alarm (Horn & Lights). (See page 25.)

Item	Description
14	**Message Mail Key** Selects the Message Mail mode of operation. (See page 96.)
15	**Status Mode Key** Selects the Send Status mode of operation. (See page 95.)
16	**Direct Mode Key** Enters/Exits Direct Mode Operation (DMO). (See page 43.)
17	**Phone Mode Key** Selects the Phone/PABX Call modes of operation. (See page 53.)
18	**Private Mode Key** Selects the Private Call mode of operation. (See page 48.)
19	**Group Call Key** Selects the Group Call mode of operation. (See page 32.)
20	**Range Key** Selects the talkgroup range (used before selecting a talkgroup). (See page 32.)
21	**Volume Knob** Adjusts the volume level. (See page 25.)
	Push-To-Talk (PTT) Button Push to: • Send a Group, Private, Phone/PABX, or Emergency Call. • Send a status message.

The Display

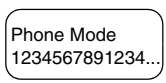
List of Display Icons

After you turn on your MTM800, icons appear along the top of the display to indicate the following conditions:

Icon	Description
	Signal Strength (TMO) Allows you to check signal strength before proceeding with a call. Six bars indicate the strongest signal. Calls and messages may not be sent or received in weak signal areas. A blinking antenna shows out-of-coverage. Move to a location that indicates better coverage and reattempt the call. The antenna is not shown in Direct Mode Group Call.
	Signal Strength (DMO) Indicates an incoming Direct Mode Group Call.
	Direct Mode Displayed when the terminal is in Direct mode.
	DMO Gateway Indicates that you selected to work with gateway. This icon has three positions: **Solid** — while the terminal is synchronised with the gateway (i.e., when the terminal receives a presence signal). **Blinking** — while the terminal is not synchronised with the gateway or during attachment. **No icon** — during a terminal to terminal and repeater call.
	DMO Repeater Displayed when the repeater option in DMO is selected. This icon has three states: **Solid** — while the terminal has detected the repeater (i.e., when the terminal receives a presence signal). **Blinking** — while the terminal has not detected the repeater or during attachment. **No icon** — during a terminal to terminal and gateway call.
	New Message Received Indicates that you have new messages in your mail box.
	External Alarm Displayed when External Alarm (“Horn & Lights”) is enabled.

Icon	Description
	Incoming Private Call Blinks to indicate an incoming Private Call. The icon extinguishes if you accept or reject the incoming call or if the call setup fails.
	Phone Call Blinks when a Phone Call is received.
	Emergency Appears while the MTM800 is in Emergency mode. The icon blinks to indicate an incoming Emergency Group Call.
	Priority Scan (with Priority Monitor Dot) Indicates scanning is activated.
	Data Connected Displayed when the MTM800 is successfully connected to the external device (laptop or desktop PC) and ready for data transfer. **Receiving/Transmitting Data**: The icon indicates that data transfer is currently taking place.

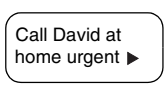
Displaying Long Numbers



Three dots after the number indicate that it continues on the next page (for example, in the phone address book).

If you dial a long number, each new digit entered will shift the displayed number left by one digit.

Displaying Long Text Messages



An arrow after the text message indicate that it continues on the next page (for example, when reading a mail message). Press ▶ to read the next page.

LED Status Indicators

The LED indicators shows the in-service status of your MTM800.

Indicator	Status
GREEN: Solid	In use
GREEN: Blinking	In service
RED: Solid	Out of service
RED: Blinking	Connecting to a network / Entering DMO
ORANGE: Solid	Transmit Inhibit (TXI) in service / Channel busy in DMO
First solid then blinking ORANGE	Incoming call
No indication	Switched off

Powering On/Off

To power on:

- Press the **On/Off** pushbutton.
- If the MTM800 is configured with ignition sense, the radio will automatically turn on whenever the vehicle ignition is turned on.
- If an external Emergency Switch is connected to the accessory connector and “Emergency with wake up” is enabled by your Service Provider, the MTM800 automatically turns on in Emergency Mode whenever the Emergency Switch is pressed (see “Emergency Mode” on page 56).

A set of icons and squares will appear on your display. (See “List of Display Icons” on page 8.) Then your MTM800 performs a self-check and system registration routine. The display shows additional information while the MTM800 is registering on the system.

After successful registration, the MTM800 will be in service.

To power off:

- Press the **On/Off** pushbutton again.
- If the radio is powered on via the ignition, it can be turned off via the ignition or the **On/Off** pushbutton

You will see the **Powering Off** message.

NOTE *The terminal powers On and Off without visible and audible notification if Covert Mode is activated. (Refer to "Covert Mode" on page 23.)*

Uninstalling the Radio

CAUTION

OPTION 1:

Before disconnecting the 13.2V main power supply from the radio:

1 Switch off the radio.
2 Wait for a minimum of 4 seconds after the radio Off Switch is released.

Disconnect the 13.2V main power supply.

OPTION 2:

Turn off the main power supply WITHOUT switching OFF the radio.

Unlocking the MTM800

Your MTM800 may be locked at power up. To unlock, see "How to unblock the MTM800" on page 75.

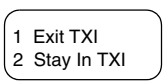
Selecting Your Network

Before you start operating your MTM800, you can select the network you want your MTM800 to be registered to. For detailed information, see "Network" on page 86.

Powering On with activated Transmit Inhibit

If the terminal has been powered Off with activated Transmit Inhibit (see "Setting Transmit Inhibit (TXI) Mode" on page 87) the TXI Mode remains active.

When powering On with activated TXI Mode the user will be asked whether to leave the TXI Mode or not.



Press (1) if you want to deactivate the TXI Mode — e.g. if you have left the RF sensitive area where the TXI Mode was recommended. If the MTM800 was previously used in Trunked Mode (TMO), it will register to the network.

If you press (1), and the terminal was previously used in TXI and Direct Mode, it will exit TXI Mode and remain in Direct Mode.

If the terminal was previously in Trunked Mode with TXI enabled, pressing (2ABC) will power off the terminal.

If you press (2ABC), and the terminal was previously used in TXI and Direct Mode, it will remain in TXI and Direct Mode.

Key Overview

The Mode Keys

The MTM800 has four major call modes when operating in Trunked Mode Operation (TMO):

- Group mode — to send and receive Group Calls.
- Private mode — to send and receive Private Calls.
- Phone mode — to send and receive Phone Calls.
- PABX mode — to send and receive local (office) extension numbers calls.

NOTE *PABX mode will only be displayed if enabled by your Service Provider*

If configured by your Service Provider, Group mode is the home mode to which the MTM800 returns automatically when there is no activity for a few seconds in another mode or in the menu.

Group mode can operate either in

- In **Trunked Mode Operation** (TMO) the MTM800 is used with the infrastructure services within system coverage, or
- In **Direct Mode Operation** (DMO) the MTM800 is used without infrastructure services required.

NOTE *While operating in DMO mode the propagation travels directly from the transmitting terminal antenna to the receiving terminal antenna, with no assistance from any base station or tower. Therefore, the range is critically dependent on the position of the motorcycle. Any obstructions (hills, buildings, etc.) between the TETRA terminal users will further decrease the range. Conversely, moving the motorcycle to another or higher location may improve the range.*

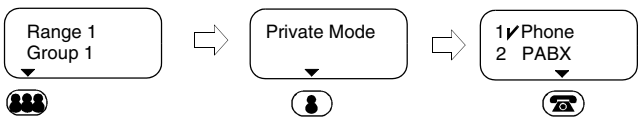
A terminal in DMO can communicate with the trunking system (and vice-versa) through a gateway device. To use that feature, please enable the gateway option in your terminal (see “Gateway/Repeater Selection” on page 40).

NOTE *It is only possible to place group and emergency group calls in DMO.*

Press the ⊢⊣ key to enter Direct Mode Operation.

Your display appears similar to the following default start screens for the Group, Private, Phone/PABX modes when your MTM800 is in service.

Examples of MTM800 Mode Start Screens



The Menu Key

Your MTM800 contains menus and sub-menus. They allow you to adapt a large number of settings to your needs.

A menu is a list of options. Some of these options provide access to a further list of options called a sub-menu.

The example below shows how to check the available free memory in the phone address book. The ✓ sign indicates the selected option

The menus are organised in a hierarchy (see “List of Menu Options” on page 68) for easy access and fast navigation between options. Numbers can be used as shortcuts. In the example above, you can reach the second sub-menu by pressing **2 1 4** in sequence (not simultaneously). For information on using the alphanumeric keys, see “The Keypad” below.

If there are more than two options in a specific sub-menu, the last option appears in the first line of the initial display, letting you know how many options are available.

The Emergency Key

The Emergency mode, that you can start from any mode by pressing the key, enables you to send Emergency Alarms and initiate Emergency Group Calls.

NOTE *Emergency mode is available in Trunked Mode and Direct Mode Operations. Emergency Alarm is a feature of Trunked Mode Operation only. The Emergency Alarm will be send to the dispatcher (if configured by your Service Provider).*

NOTE *The required time you need to press the Emergency key is by default set to 0.5 seconds. The time can be configured by your Service Provider.*

However, you will be able to receive or transmit emergency calls even when the MTM800 is locked with pin protect.

The Alphanumeric Keypad

Use the keypad for dialling, entering number into the address book, or creating SDS (Short Data Service) messages, or for one-touch dialling.

Entering Numbers

To enter a number in the address book, press the corresponding number key.

Entering Text (Letters and Digits)

To enter alias text in an address book or text in messages, press the key labelled with the desired character, once for the first character, twice for the second, and so on. The key has additional characters (see page 16).

For information on alias text, see the chapter below.

Editing the Text

To...	Action
Move the cursor one character to the right	Press ▶, press a new key, or wait for a short time
Move the cursor from the end of the text to its beginning	Press and hold ▶
Move the cursor to a character on the left	Press ◀
Delete a character left to the cursor position	Press ✕
Delete the whole text	Press and hold ✕
Quit editing	Press ✕

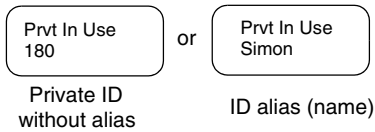
Aliases (Names)

Aliases are optional names that you can assign to stored phone and private numbers (or IDs).

Aliases can be up to 14 characters in length and may consist of letters, numbers, or spaces.

Aliases are displayed during memory list scrolling. Aliases are also used to retrieve numbers from your memory list.

The following screens show examples of how the caller's private number can be displayed.



Available Characters

Press the appropriate keys to display the characters listed in the table below.

The top line for each key shows the upper case characters, and the lower line shows the lower case.

Press and hold (#) to toggle between upper and lower case.

List of Available Characters:

Key	Alphanumerics
1	. , ? ! 0 1 @ ' " - ( ) / : _ ; + & % × * = < > € £ $ ¥ ¤ [ ] { } \ ~ ^ ¿ ¡ § #
2 ABC	A B C 2 Ä À Â Æ Ç a b c 2 ä à â æ ç
3 DEF	D E F 3 È É Ë Ê d e f 3 è é ë ê
4 GHI	G H I 4 Î Ï Ì g h i 4 î ï ì
5 JKL	J K L 5 j k l 5
6 MNO	M N O 6 Ö Ô Ò Ñ m n o 6 ö ô ò ñ
7 PQRS	P Q R S 7 p q r s 7
8 TUV	T U V 8 Ü Ù Û Ú t u v 8 ü ù û ú

Key	Alphanumerics
9WXYZ	W X Y Z 9 w x y z 9
*🔔	Space * / %
0	0 + -
#	# = < >

Programmable Keys

Your MTM800 supports the one-touch feature that allows you to select/activate commonly used features by pressing and holding a numeric key. Your Service Provider should program the numeric keys with the relevant features. All the numeric keys on the keypad are programmable. The following table lists the programmable features and their availability in specific MTM800 states/modes. For detailed information on the features, see the relevant section in the user guide:

Feature	Description
Talkgroup Switch	Switch to a specific talkgroup
Talkgroup Scan	Enables/disables the Talkgroup Scan function. (TMO only)
Status Message	Sends a dedicated status message to a dedicated address. (TMO only)
Speaker on/off	Directs voice audio to the earpiece of the headset or to the external speaker.
Call dial (Private, Phone, PABX)	Initiates a call to a predefined entry in the address book. (TMO only)
Transmit Inhibit (TXI)	Toggles between activated and deactivated TXI mode.
Covert Mode	Toggles on/off covert mode

NOTE *If the one-touch feature is enabled, one-touch dial is disabled (see page 54).*

To use the one-touch feature:

- From any mode, press and hold the required numeric key for a few seconds.
- Your MTM800 will display the number or function and act according to the programmed feature.

One-touch Private Call is set by the Service Provider.

1. If it is set to **Simplex**, then outgoing Private Call is Simplex too.
2. If it is set to **Duplex**, then outgoing Private Call can be duplex in TMO, Simplex in DMO with the last Group Call Originator number.
3. If it is set to **Duplex**, then outgoing Private Call can be duplex in TMO and cannot be initiated in DMO when the phone book index is required.

Home Mode Display

Your MTM800 is provided with a feature that allows your Service Provider to send special text messages to your MTM800 display.

The message is displayed when your MTM800 is inactive.

Range 1
<HomeModeTxt>

The message will stay on your MTM800 display until a new message is received.

If configured by your Service Provider, your MTM800 will display an internal Home Mode Display until another message is received.

Terminal Disable/Enable

Your MTM800 is provided with a feature that allows your Service Provider to disable it temporarily (in case it is stolen or lost) wireless.

During the time your MTM800 is disabled, no calls can be initiated or received.

While your MTM800 is disabled, it will display the following blank screen.

Your MTM800 will act like it is turned off.

If you try to turn your MTM800 on when it is disabled it will operate as described above.

If your MTM800 is found, your Service Provider can re-enable it. After your MTM800 is re-enabled, you may resume normal operation.

Terminal Permanent Disable

Your MTM800 is provided with a feature that allows your Service Provider to disable it permanently in case it is stolen or lost. When your MTM800 is disabled permanently, it becomes inoperable.

After a Permanent Disable the MTM800 can not be re-enabled by your Service Provider.

You are recommended to disable your MTM800 permanently only when you do not expect the terminal to be recoverable any more.

Making Calls

You are ready to place the call as required for the mode you are in:

- press ✔ to initiate the call and ✘ to end the call.
- press and hold the **PTT** while talking, and release the **PTT** while listening.

To dial a number for an outgoing call, enter the required mode (Group, Private, Phone, or PABX) and use one of the methods described on the following pages.

For more details on mode specific dialling methods, see the relevant mode section in this guide.

Since the same numbers can be used in different modes for various subscribers (if configured), be sure to make the calls

from the correct mode when entering a number through the keypad. Pressing (PTT) or (☎) while dealing a number will carry the number typed to the next mode.

VOX Control

VOX (Voice Operating Transmission) allows the user to transmit voice in a hands-free condition. It is detecting audio automatically when full duplex private call and telephone call use the fist microphone.

NOTE *This feature is only available if set up by your Service Provider. If it is disabled, transmittion can start upon pressing PTT.*

Receiving Calls

The MTM800 will automatically switch to the mode of the incoming call. After the incoming call ends, the display returns automatically to the mode it was in before the incoming call arrived.

NOTE *In Private, Phone and PABX modes on receiving not Emergency TMO or DMO group call the MTM800 stays in the current mode. You can hear the call and the display remains unchanged.*

Your MTM800 will alert you of an incoming call depending on the setting you selected in Tones menu option (see page 83).

During message editing, you will be alerted of an incoming Group/Emergency Group/Broadcast Group Call if configured by your Service Provider.

Busy User Pre-emption (BUP)

NOTE *This feature is only available if set up by your Service Provider.*

A console operator in the system might wish to call you while you are in an on-going call (Private, Phone, PABX). The console operator will activate the BUP feature to interrupt and pre-empt your call.

NOTE *BUP Invocation also pre-empts a call in process of being set up. The call in setup must be a private, phone or PABX call.*

The console operator will then try to set up a private call with you, within a pre-determined period of time after successful call pre-emption.

NOTE *Only emergency calls are allowed within a pre-determined period of time after successful call pre-emption (during BUP wait state).*

Pre-emptive Calling (PPC)

Pre-emptive calling is particularly useful when you need to speak urgently with a user whose terminal is busy in a non-emergency voice call.

A Pre-emptive Priority call (PPC) is either an Emergency Group Call or a Private PPC (half-duplex or full-duplex call).

The feature allows to disconnect the on-going lower priority call to connect to the incoming higher priority call.

The Service Provider configures the priority of the PPC. Its highest priority is emergency priority.

To place a PPC, see the Emergency mode and Private mode sections in the user guide.

The MTM800 will receive the call via loudspeaker or earpiece of the handset, according to the setting used when the PPC is received

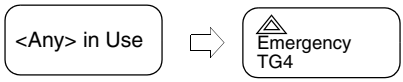
NOTE *For call alert, see settings in the Tones menu option (page 83).*

Receiving a PPC is explained in the following paragraphs.

In the following screens **<Any> in Use** refers to any of the non-emergency voice calls: Group, Private, Phone, or PABX.

Receiving an Emergency Group Call during a Call

The MTM800 receives the Emergency Group Call, drops the on-going non-emergency voice call, and connects to the Emergency Group Call.



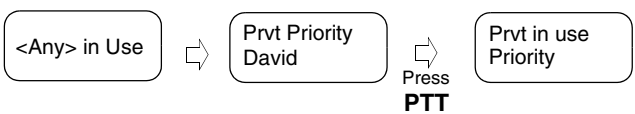
Receiving a Private PPC during a Call

If configured by your Service Provider, the MTM800 receives the PPC, drops the on-going, non-emergency, lower priority voice call, and connects to the higher priority private call.

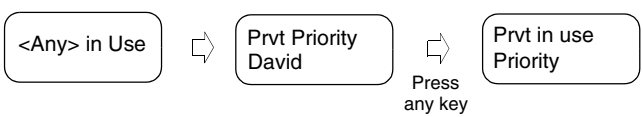
A PPC with lower or equal priority, will be dropped without any indication to the called user and will enter the missed call list.

A PPC with emergency call priority will be displayed on the screen as **Emergency** (instead of **Priority**).

Half-duplex Private PPC Received

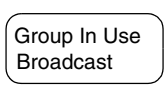


Full-duplex Private PPC Received



Broadcast Call

The Broadcast Group Call (also called Site Wide Call) is a high-priority group call from the console operator (or dispatcher) to all terminal users located at one or more sites.



The terminals are configured to monitor a Broadcast Call, but the users cannot talk back.

The call can be received as normal broadcast call or emergency broadcast Call.

Emgcy In Use
Broadcast

The Broadcast Call pre-empts an on-going Group Call that has the same (or lower) call priority.

For selecting a talkgroup during a broadcast call, see “Selecting a Talkgroup” on page 28. For changing range during a broadcast call see “Changing a Talkgroup during/on receiving a call” on page 31.

Ambience Listening (AL)

This feature, if enabled by your Service Provider, allows a console operator or dispatcher to establish a special call with a specific MTM800 to monitor voice activity in the local vicinity. The call is setup without any indication to the affected MTM800, and any lower priority ongoing voice call or packet data transfer may be pre-empted.

After accepting the call, the MTM800 transmits in a half-duplex Private call without any action from or indication to the user. The Ambience Listening call shall automatically end when the user initiates any voice call and uses the terminal normally.

Cancelling an Incoming Call

In all modes (except Group), if you wish to cancel a call during an active call, press . The call number will be forwarded to the Missed Call list.

Covert Mode

If configured by your Service Provider the Covert Mode gives to you the ability to completely shut down all visible and audible MTM800 alerts and notifications. This feature makes the MTM800 effectively unnoticeable even in a silent and dark environment.

To Enter the Covert Mode:

- Press the Cover Mode one-touch button (if programmed by your Service Provider), or
- Select Covert Mode in the Security menu (refer to page 78).

Local Area Service

This mode, which is also called Fallback Mode, allows more than one user from the same site to communicate when the link between the site and network central controller fails. Entering and exiting Local Area Service (that is, returning to System Wide Services) is done automatically.

Entering Local Area Service

When the MTM800 receives a Local Area Service indication from the system, the following occurs:

- the MTM800 sounds a tone.
- the display shows the “Local Area Service” message.
- any call in progress is dropped upon entering Local Area Service mode.

If configured by your service provider, this message/alert will periodically repeater to remind you the terminal is still operating in Local Area Service mode.

The following features are available while the MTM800 is in Local Area Service:

- Registration
- Attachment
- Group Call
- Emergency Group Call
- Emergency Alarm

Exiting Local Area Service

When the link with the central network controller is re-established, the MTM800 exits Local Area Service and the following occurs:

- the MTM800 sounds a tone.
- any call in progress during Local Area Service is dropped.

Dimming the Display

If the backlight is set to Manual (see “Setting Backlight” on page 81), there are four levels of display backlight intensity. To change the backlight intensity, press (#).

NOTE *The intensity cannot be dimmed in Phone or PABX Mode and text editing, where the Backlight key ((#)) is used to enter a # sign and/or as a Shift key.*

Adjusting the Volume

To increase the volume, turn the On/Off-Volume knob clockwise.

To decrease the volume, turn the On/Off-Volume knob counter-clockwise.

Horn & Lights Alarm On/Off

Use the Horn & Lights Alarm when you leave your motorcycle and want to be alerted if an important message arrives (Private Call, for example).

NOTE *In order to operate the Horn & Lights Alarm, you must install the GKN6272 accessory on your motorcycle.*

If the External Alarm function is pre-programmed, the motorcycle lights turn on and an alarm sounds to inform you of the incoming call.

To turn the Horn & Lights Alarm on or off, press (*🔔).

NOTE *The ignition must be off for the Horn & Lights Alarm to work. The Horn & Lights Alarm cannot be operated in Phone or PABX Mode and text editing, where the (*🔔) key is used to enter an * sign.*

Packet Data

The Packet Data (PD) Service allows you to transfer data in a TETRA system using the Internet Protocol (IP). Check with your Service Provider for the availability of this feature.

NOTE *For transferring data from a standard computer over the air connect the computer via the Active Data Cable GMKN1022 with your MTM800. Your Service Provider has to setup additional applications on your computer.*

If set up by your Service Provider it is possible to accelerate the transmission by using the Multi Slot Packed Data (MSPD) Service (refer to “Packet Data” on page 91).

Looking after your MTM800

To clean your MTM800, use a moistened or antistatic cloth. Do **NOT** use a dry or electrostatically charged cloth.

TMO Group Call

General

A Group Call is an instant communication between you and others in a talkgroup that you select. Participants may join (late entry) and leave an on-going Group Call. A **talkgroup** is a predefined set of subscribers enabled to participate in and/or invoke a Group Call and set up by your Service Provider.

Talkgroups appear on your display as names or numbers (for example: Sales, Service, Electricians, Talkgrp10).

The Talkgroups are divided into **ranges.** Each range may contain up to 16 talkgroups.

For ease of use, your MTM800 also provides the ability to:

- Perform an alphabetical search of the talkgroup aliases.
- Scroll through the entire talkgroup list using the navigation key.
- Dial a talkgroup (set up by your Service Provider).
- Organise your favourite talkgroups into one range called My Groups (set up by your Service Provider).

Your talkgroups may be organized into **scan lists** (set up by your Service Provider, or by yourself through the Menu). When you activate one of these scan lists, your MTM800 will continuously monitor the activities of the selected talkgroups.

By assigning priorities to the talkgroups defined in the scan list, you will be capable of accepting calls that have higher **priority** than the on-going call. For detailed information on scanning, see page 88.

You can start talkgroup, range, or scanning selection when the terminal is in idle mode or receiving a call.

While being in a call and dialling another group simultaneously, do the following to talk in the current call:

1. Exit selection screen.

2. Press **PTT** and start talking.

Pressing **PTT** on selection screen switches to a new group and starts a call.

Each talkgroup may have one associated **Announcement Talkgroup** (ATG) that it monitors (If set up by your Service Provider).

An ATG is a special group which is linked to a number of talkgroups and has the highest priority level, thus enabling broadcast of the call to all these talkgroups.

When an ATG is selected, the scanning icon is not displayed. The MTM800 monitors the ATG scan list instead of the selected scan list. The ATG scan list contains all the talkgroups associated with a selected ATG. Your Service Provider should advise what talkgroups are associated with which Announcement Talkgroup.

Your MTM800 will always monitor the group calls in the ATG scan list. To place an Announcement Call, you must first select the specified Announcement Talkgroup as advised by your Service Provider, otherwise you will only be able to participate when an Announcement Talkgroup is received.

Activation and deactivation of talkgroup scanning has no effect on the ATG scan list.

Selecting a Talkgroup

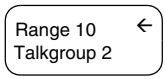
You can select a talkgroup in one of the following ways, by using the:

Range 10
Talkgroup 1

- navigation keys
- alphabetical search feature
- numeric keypad entry (if configured by your Service Provider)
- favourite groups (if configured by your Service Provider)

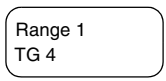
For talkgroup range scrolling configuration, see note in “Selecting a Range” on page 32.

Using the Navigation Key

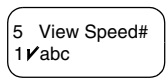


Your Service Provider configures the MTM800 to display only selectable talkgroups. Press the navigation key to scroll to the required talkgroup and press ✔. For talkgroup range scrolling configuration, see note in “Selecting a Range” below.

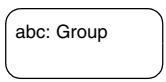
Using Alphabetical Search



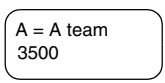
1. In Group Mode, press ⬭.



2. Select **abc** for talkgroup alpha search and press ✔.



3. You are now at the talkgroup alpha search screen. Enter an alphanumeric digit, and the MTM800 starts searching for the first Talkgroup alias, that starts with that character. Use the navigation key to scroll to adjacent aliases. In this example “a” is entered.



4. Scroll and select the desired talkgroup by pressing ✔, or press **PTT** to select and start a call on the new group.

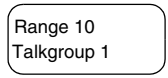
Using the Numeric Keypad

When the terminal is in group mode and not transmitting (i.e., idle or receiving a call), you can dial a group by entering its speed number via the keypad. This feature is called Talkgroup Speed Dialling. The speed number is pre-configured in the terminal.

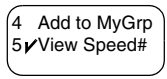
You can also view a speed number attributed to a group, if it exists.

Viewing the speed number of an attached group

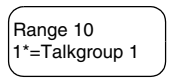
1. In Group Mode, press .



2. Select **View Speed#** to view the talkgroup speed number.

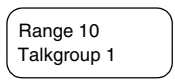


3. In this example “1” is the speed number. Press to return to the attached group screen.

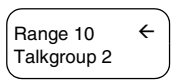


Viewing the speed number while in scroll (idle mode only)

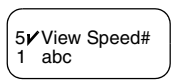
1. In Group Mode, press the navigation key to scroll to the required talkgroup.



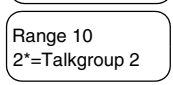
2. Press .



3. Select **View Speed#** and press to view the talkgroup speed number.

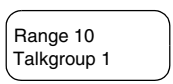


4. In this example “2” is the speed number. Press to return to the attached group screen.

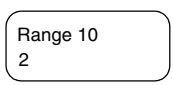


Dialling a speed number

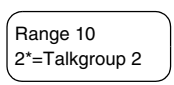
1. Enter a number (for example: “2”).



2. Press or .



3. Press to attach the new group, or press **PTT** to attach and call.



Favourite TalkGroups

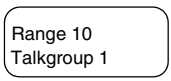
This feature allows you to store a favourite group in a special range called **My Groups**. A stored group may be TMO or DMO.

You can do the storing

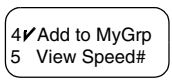
- from the group mode screen or
- from the My Groups menu option.

Adding a Group from the Group Mode Screen

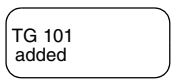
1. In the group mode screen scroll to the required group and press .



2. Select **Add To MyGrp**.



The terminal displays the talkgroup alias added message and then returns to idle state.



Adding a Group from the My Groups menu option

See “My Groups” on page 72.

Selecting a Group from the My Groups Range

See “My Groups” on page 72.

Changing a Talkgroup during/on receiving a call

You can select a group folder without an interruption on receiving and during a call.

Selecting a group on receiving a call

If you select a group and a non-Emergency call is incoming, MTM800 display remains unchanged while you hear the call.

During the selection you cannot see calling party information.

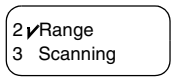
NOTE *When an Emergency Call is received, then selecting is aborted, the MTM800 switches to the group mode and Emgcy In Use display appears.*

Selecting a group during a call

If you start selecting a group during a call, **Group In Use** or **Emgcy In Use** display disappears.

Selecting a Range

To select a range:



1. Press , Select the **Range** option.
2. Use ◄ or ► to scroll through the ranges.
3. Press ✓ to confirm your selection (or PTT to start the call in the new range).

NOTE

The Service provider can configure range scrolling to:

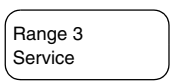
- *Stay in range — when the range end is reached during talkgroup scrolling, further scrolling restarts the range talkgroup list.*
- *Scroll to next range — when the range end is reached during talkgroup scrolling, further scrolling switches to the talkgroup list in the next range.*

Activating/Deactivating Scanning

See “Setting Talkgroup Scanning” on page 88.

Making a Group Call

1. Press .

   You are now in Group mode. In this example, “Range 3” is the last selected range. “Service” is the last selected talkgroup.
2. If this is the required talkgroup and range, press the **PTT**. Wait for the “Talk permit” tone (if configured) and then speak into the microphone.

   Release the **PTT** button to listen.

3. To select a talkgroup other than the one shown, press ◄ or ► to scroll through the talkgroups. Press ✓ to confirm your selection.

   Press **PTT** to start the call in the new talkgroup.

4. To select a range other than the one shown, press ●●, select the **Range** option, use ◄ or ► to scroll.

   Press ✓ to confirm your selection (or **PTT** to start the call in the new range). The call is set up in the new range and last selected talkgroup in this range.

When you start a call, members of the selected talkgroup who have their units turned on, will receive the transmission.

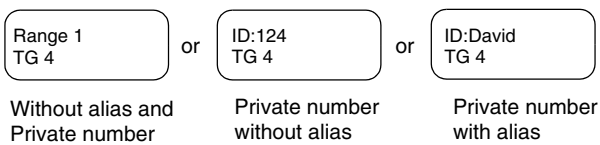
NOTE *The 'No Group' message is displayed when you are out of the normal coverage area of your selected talkgroup. If so, select a new talkgroup that is valid for your working location.*

Receiving a Group Call

Unless it is engaged in an active call, your MTM800 will automatically switch to Group Mode and receive the transmission. To answer the call, press and hold **PTT**.

Your MTM800 shows the Group Name, and the caller's private number or name (alias) if previously stored in your address book. In case a favourite talkgroup is received, the terminal will display the "My Groups" range and group alias.

The following screens show examples of how the caller's private number (ID 124) is displayed.



NOTE *For incoming call alert, see settings in the Tones menu option (page 83).*

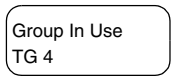
NOTE *When receiving a Group Call, your MTM800 will sound a "New Group Call" tone (if configured by your Service Provider).*

Receiving a Group Call with Scan Off

You can receive a group call from the selected talkgroup or from the associated ATG only.

Receiving a Group Call in Idle Mode

In Automatic Mode Switch you can receive a Group Call in any mode. Your MTM800 will automatically switch into Group mode and receive the transmission.



Receiving a Group Call during an On-going Group Call

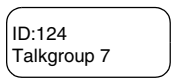
Depending on how your Service Provider has configured incoming calls, the incoming call will either be:

- Forced upon you and will interrupt the ongoing call (if the incoming call has higher priority than the ongoing call).

  or

- Presented to you (if it has higher priority than the on-going call).

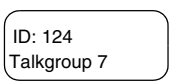
  To accept the call, press ✔, and press the **PTT** button.



Receiving a Group Call with Scan On

With Scan On, you can receive a group call from the scan list you set up, in addition to receiving a group call from the selected talkgroup or from the associated ATG.

Receiving the scan call functions as receiving an associated ATG or selected call in scan off (see previous page), except for the following:



- The display is different when receiving the call in idle mode, as shown here.
- The MTM800 sounds a tone as explained in the note below.

NOTE *When receiving a High Priority Group Call, your MTM800 will sound a "High Priority Group Call" tone (if configured by your Service Provider).*

NOTE *When receiving a Group Call from your scan list, which is not from a high priority group, your MTM800 will sound "New Group Call" tone (if configured by your Service Provider).*

Receiving an Emergency Group Call

For detailed information, see page 22.

Receiving a Broadcast Call

For detailed information, see page 22.

Transmit Inhibit

The Transmit Inhibit (TXI) Mode can be activated by the user before he enters RF sensitive areas, e.g. hospitals or in potentially explosive areas, where safety can be jeopardized due to terminal transmission radiation.

NOTE *Radiation of the MTM800 is only suppressed if the TXI Mode is activated or the terminal is separated from power supply.*

Transmit Inhibit can only be activated in Group Mode. In Transmit Inhibit Mode the terminal will not transmit under any circumstances, except for the Emergency Group Call, which can be initiated even if the MTM800 is in TXI Mode.

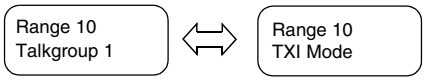
All terminal functions and keys which cause transmission, e.g. registration to the network, change of talkgroup or range, sending messages, pressing **PTT**, etc. are disabled. In this case the display shows "Not Allowed In TXI Mode" and the terminal sounds the "Transmit Inhibit" tone.

When no danger to safety exists anymore (for instance if the user leaves the RF sensitive area) the Transmit Inhibit mode can be deactivated and the terminal returns to normal operation.

Setting the TXI Mode is described in "Setting Transmit Inhibit (TXI) Mode" on page 87.

NOTE *To activate or deactivate the TXI Mode you can use one of the programmable keys (if set up by your Service Provider). You must press and hold the key for a pre-set time as configured by your Service Provider.*

Activated Transmit Inhibit is indicated by the solid orange LED and changing between the two displays:



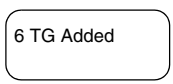
Dynamic Group Number Assignment (DGNA)

DGNA provides the ability for a network operator or authorised user to dynamically allocate new, or update existing talkgroups to selected terminals over the air interface. Using supplementary services messages (SS-DGNA), the network operator can command the terminal to add talkgroups to the existing talkgroups list, or to delete talkgroups from the list. This operation is performed by transmitting the data into your MTM800.

NOTE *Your Service Provider can gather some Talkgroups under one Super-group and transmit it to your MTM800 as a DGNA. In such a case, you will be able to participate in calls to/from all the groups in the Super-group.*

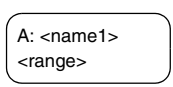
DGNA Reception with Notification Message

When a DGNA is received and DGNA notification was configured by your Service Provider, you will get a tone indication and notification message (“Programming Entries...”), and then a display of the new assignments.



If DGNA notification was not configured by your Service Provider, you will only get a tone indication and only if a selected group was changed by the DGNA.

1. To view the added/deleted talkgroups details press ✔. You may scroll through the list using the ◀, ▶ keys.



2. To return to the initial Mode display press .
3. To select the DGNA group, press . Or scroll to another group using the navigation key, and press .

NOTE *Once you exit the DGNA notification screen, the Select key disappears. To select one of the newly added groups, see page 28.*

If configured, a newly added group will be automatically attached as the selected group and will replace the currently selected group. If the group is later removed, the terminal reselects the last selected group prior to receiving the automatic attachment.

If configured, a newly added group will also become the newly selected talkgroup.

If this group is de-assigned, and no group changes or power cycling have occurred, the terminal will revert to its previous talkgroup.

If a new DGNA is received during scrolling, you will receive a message, indicating that the list of talkgroups was updated.

TG list Updated

After a few seconds the display returns to the initial DGNA display detailing the update:

18 TG Removed

If the DGNA received is an all “Talkgroups delete” assignment, your MTM800 will display the following:

All TalkGroups Deleted

DGNA Reception without Notification Message

If DGNA notification was not configured by your Service Provider, you will get a tone indication and notification message only and only if a selected group was changed by the DGNA.

DGNA Auto Select Group

If DGNA Auto Select was configured by your Service Provider, whenever a DGNA message is received by your terminal, the talkgroup will automatically be made the selected group by your terminal.

Button/Footswitch

This feature provides to the user ability to send provisioned status message by pressing Emergency button/footswitch. TMO Emergency mode, Emergency Alarm and initiating TMO Emergency Group/Private call is unavailable.

Message addressing and sending:

- address can be predefined by Service Provider if not it will be send to currently selected group
- if no group selected the message will be send to reserved address
- message will be send even if the user is involved in any active service.

Indication depend on Service Provider. Visible/audible can be disabled for the status message.

When the radio is PIN locked the user can still press the Emergency button/footswitch to send the message. If the radio is out of service the user will only see indication that operation failed.

DMO Group Call

General

In DMO (Direct Mode Operation) the MTM800 can be used without your Service Provider's infrastructure.

Direct Mode allows communication among terminals in which the same talkgroup is selected.

NOTE *In DMO it is only possible to place Group Calls, Emergency Group Calls and Private Half-duplex Calls.*

You can receive a call:

- From the selected talkgroup
- From other users within talkback range (if configured by your Service Provider). This is called an InterMNI (Mobile Network identity) call.
- From an open group. (An open group is a super-group to which all DMO groups belong.)

When you start a call, the members of the selected talkgroup who have their units turned on, and are within the group subscriber identity (as configured by the Service Provider), will receive the transmission.

In DMO the MTM800 can communicate with the trunking system (and vice-versa) if the **Gateway** option is enabled in the terminal.

To enhance the terminal's DMO coverage area the DMO group can link to a repeater if the **Repeater** option is enabled in the terminal. Additionally the **GW + Rep** (gateway and repeater) communication mode can be used.

If Transmit Inhibit is activated while the terminal is set to DMO, the PTT is disabled. You can only listen. For detailed information on Transmit Inhibit, see page 35. DMO Talkgroup selection is allowed when Transmit Inhibit is activated.

Selecting a Talkgroup

See “Selecting a Talkgroup” on page 28.

Changing a Talkgroup during/on receiving a call

See “Changing a Talkgroup during/on receiving a call” on page 31.

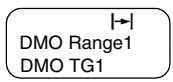
Switching from TMO to DMO or from DMO to TMO

Enter TMO or DMO in one of the following ways:

- To switch from TMO to DMO press and hold (⊢).
- To switch from DMO to TMO press and hold (⊢).

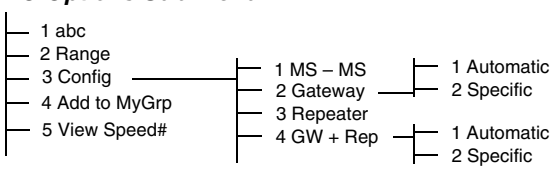
Gateway/Repeater Selection

Use the DMO **Config** sub-menu for setting the Gateway and Repeater options.

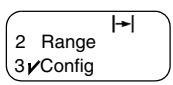


1. Press (●●) to enter the options menu in DMO:

DMO Options Sub-menu



2. Scroll to **3 Config**, and press **Ok**.

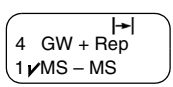


Selecting DMO Group Call MS to MS (●● 3 1)

To change from gateway or repeater mode to MS – MS mode (DMO terminal to terminal call):

1. Press (●●), scroll to **3 Config** and press (✓).

2. Scroll to **1 MS – MS** and press (✓). The following message to be displayed for a few seconds: **MS – MS Will Be Used**.



Selecting DMO Group Call via Gateway (3 2)

While in DMO, proceed as follows to choose a gateway to set up a call via Gateway for the selected talkgroup:

1. Press , scroll to **3 Config,** and press .
2. Scroll to **2 Gateway** and press .

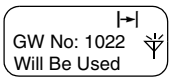
3. The display shows the last gateway selection method. Use the navigation key to scroll to your selection and press :

   Automatic — the MTM800 will use the first available gateway for that talkgroup. The Gateway icon will blink upon selecting that option.

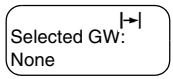
   Specific — the MTM800 will use only the gateway with the specified Gateway address for that talkgroup.

   Upon selecting “Specific”, you will see one of the following displays:

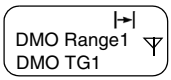
   - The selected gateway address (e.g.: 1022), pre-programmed by your Service Provider or previously entered by yourself via the keypad. Press to use the current address, or enter a new address via the keypad, and press . The Gateway icon will blink upon selecting the gateway.



   - “None”, indicating that no gateway was selected for that talkgroup. Enter an address via the keypad, and press . The Gateway icon will blink upon selecting the gateway.



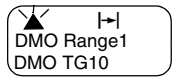
When the MTM800 detects the suitable gateway, the Gateway icon will turn solid.



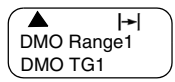
Selecting DMO Group Call via Repeater (3 3)

While in DMO, proceed as follows to choose the Repeater option to set up a call via Repeater for the selected talkgroup:

1. Press , use the navigation keys to scroll to **3 Config** and press .
2. Scroll to **3 Repeater** and press .
3. The MTM800 will use the first available repeater for that talkgroup. The repeater icon will blink upon selecting that option.



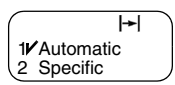
When the MTM800 detects the proper repeater presence signal, the Repeater icon will turn solid.



Selecting DMO Group Call via Gateway and Repeater (3 4)

While in DMO, proceed as follows to choose the Gateway and Repeater option to set up a call via Gateway or Repeater (Gateway preferred) for the selected talkgroup.

1. Press , scroll to **3 Config.** and press .
2. Scroll to **4 GW + Rep** and press .
3. The display shows the last “GW + Rep.” type selection. Use the navigation key to scroll to your selection and press :

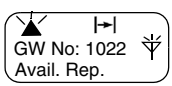


Automatic — the MTM800 will use the first available gateway for that talkgroup. The Gateway icon and the repeater icon will blink upon selecting that option.

Specific — the MTM800 will use only the gateway with the specified Gateway address for that talkgroup.

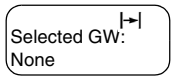
Upon selecting “Specific”, you will see one of the following displays:

- The selected gateway address (e.g.: 1022), pre-programmed by your Service Provider or previously entered by yourself via the keypad. Press to use the current address, or enter a new address via the

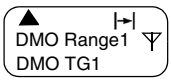


keypad, and press . The gateway and repeater icons will blink upon selecting the gateway.

- "None", indicating that no gateway was selected for that talkgroup. Enter an address via the keypad, and press . The Gateway and Repeater icons will blink upon selecting the gateway.

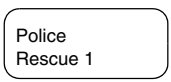


When the MTM800 detects the appropriate gateway and/or the Repeater, the Gateway and/or Repeater icons will turn solid, respectively.

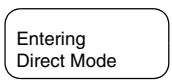


Making a DMO Group Call (MS to MS)

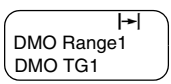
1. Press and hold for a few seconds.



2. To change range and talkgroup, see steps 3 and 4 of "Making a Group Call" on page 32.



3. If this is the desired talkgroup and range, press the **PTT** button. Wait for the "Talk permit" tone (if configured) and then speak into the microphone. Release the **PTT** button to listen.

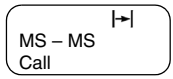


To change talkgroup and range, see the Group Mode section, page 28.

Making a DMO Group Call via Gateway

1. While in DMO, choose a gateway as described in "Selecting DMO Group Call via Gateway" on page 41.
2. Place the call for the selected talkgroup:
   - If you press **PTT** while the gateway is not available, you will start a DMO call without gateway. The Gateway icon will disappear.

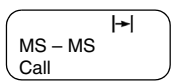
- If you press **PTT** while the selected gateway is available, but the call is rejected by the gateway, your MTM800 will sound a tone and display the following screen, informing you that the call via Gateway was aborted and that the terminal will automatically proceed to initiate a DMO call without gateway. The Gateway icon will disappear.



- If you press **PTT** while the gateway is available, you will start a DMO call with gateway. The Gateway icon will turn solid.

Making a DMO Group Call via Repeater

1. While in DMO, choose the Repeater option as described in “Selecting DMO Group Call via Repeater” on page 42.
2. Place the call for the selected talkgroup:
   - If you press **PTT** while the repeater is not available, you will start a DMO call without repeater. The Repeater icon will disappear.
   - If you press **PTT** while the selected repeater is available, but the call is rejected by the repeater your MTM800 will sound a tone and display the following screen, informing you that the call will be setup without repeater. The Repeater icon will disappear.



   - If you press **PTT** while the repeater is available, you will start a DMO call with repeater. The Repeater icon will be solid.

Making a DMO Group Call via Gateway and Repeater

1. While in DMO, choose the Gateway and Repeater option as described in “Selecting DMO Group Call via Gateway and Repeater” on page 42.
2. Place the call for the selected talkgroup:
   - If you press **PTT** while both gateway and repeater are *not available*, you will start a DMO call without gateway

and repeater. The Gateway and Repeater icons will disappear.

- If you press **PTT** while both gateway and repeater are *available*, but the call is rejected by the gateway, a repeater call will be attempted.
  - > If it is *successful* your MTM800 will display the message **Repeater Call** and a call via repeater will proceed. The Gateway icon will disappear.
  - > If it is *not successful* your MTM800 will display the message **MS – MS Call** and a terminal to terminal call will proceed. The Gateway and Repeater icons will disappear.
- If you press **PTT** while both gateway and repeater are *available*, a gateway call will be attempted.
  - > If it is *successful* your MTM800 will start a DMO call with gateway. The Gateway icon will be solid. The Repeater icon will disappear.
  - > If synchronising with a gateway is *not successful* a repeater call will be attempted.
  - > If it is *successful* your MTM800 will display the message **Repeater Call** and a repeater call will proceed. The Gateway icon will disappear and the Repeater icons will be solid.
  - > If it is *not successful* your MTM800 will display the message **MS – MS Call** and a terminal to terminal call will proceed. The Gateway and Repeater icons will disappear.

NOTE

If Gateway and Repeater mode is selected, and if one of the devices is not available, the call setup is proceeding as if this device was not selected.
*Example: In case of the Gateway is available and the Repeater is not available, after an unsuccessful Gateway call attempt the call falls back to MS – MS mode immediately with the **MS – MS call** message.*

Receiving a DMO Group Call

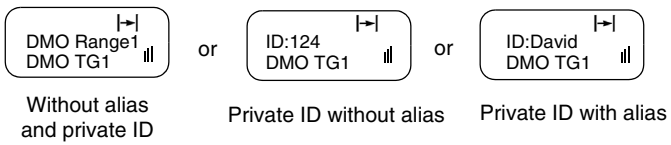
You can receive a DMO Group Call only when your MTM800 is in DMO.

Your MTM800 will display the caller's private number or alias and the talkgroup name.

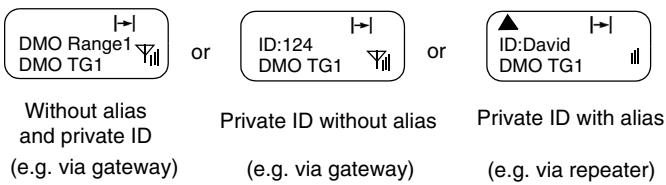
The following screens show examples of how the caller's identity can be displayed.

NOTE *For call alert, see settings in the Tones menu option (page 83).*

Receiving a DMO Group Call (MS – MS)



Receiving a DMO Group Call (via Gateway / Repeater)



The Gateway or the Repeater icons are displayed accordingly to the ongoing call type (Gateway or Repeater).

NOTE

- *If MS to MS mode is selected, and the terminal receives a call via repeater, the Repeater icon will be shown (if the repeater mode is enabled by the Service Provider, otherwise the call will not be accepted).*
- *If Gateway mode is selected but a gateway is not available, The Gateway icon will be solid in case of an incoming gateway call.*

DMO Private Call

If configured by your Service Provider it is possible to make and receive a Private Call in DMO.

However the Gateway and/or Repeater options are activated they are not used for a DMO Private Call. The DMO Private Call will be a direct communication between two TETRA terminals (MS – MS).

For detailed information, see “Private Call in DMO” on page 51.

Receiving an Emergency Group Call

For detailed information, see “Emergency in DMO” on page 61.

Private Call

General

A Private Call, also called Point to Point or individual call, is a call between two individuals. No other terminal can hear the conversation.

This call can be a

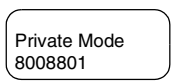
- *full-duplex* call (if the system allows) in **TMO**, or
- a *half-duplex* call in **TMO** or **DMO**.

In a full-duplex call, both participants can speak at the same time, while only one person can speak at a time during a half-duplex call.

NOTE *If your Service Provider has restricted access to the Address Book, it might not be possible to create a new contact, edit existing contacts or dial up a number which is not in the Address Book.*

Entering Private Mode

To enter the Private Mode press (👤).



In this example, 8008801 is the private number of the last calling or called terminal. No alias is displayed since it is not pre-programmed in the private number list. If this is the person you wish to call, press the **PTT**.

If you wish to talk to a person other than the one shown, you can enter another private number in one of the following ways:

- last number called,
- direct entry,
- short number dial or
- list scroll.

Press (✂) to return to the Private Mode display.

Operating with MTM800 in RF sensitive areas, see “Transmit Inhibit” on page 35.

NOTE *While Transmit Inhibit is activated, an incoming Private Call is indicated, but it is not possible to answer the call.*

Entering the Private Number

Last Number Called

Press **PTT** to recall the last called number.

Direct Entry

Enter the private number. If the number entered is in the pre-stored private address book, the MTM800 will find it for you.

Short Number Dial

If set up by your Service Provider, Short Dial allows you to dial part of the full number of the person you wish to call. Your MTM800 will automatically complete the number and send it over the air based on your own terminal’s identity.
For example:

1. Dial 456 (instead of 4282456, the full number).
2. To place the call, press the **PTT**.
3. To hang up, press .

List Scroll

To scroll back or forward through the stored list of numbers and names, press ◀ or ▶.

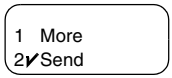
Making a Private Call in TMO

1. Enter the number of the person you wish to call.
2. Press and release the **PTT** button. You will hear a ringing tone. Wait for the called person to answer your call.
3. Press and hold **PTT** when talking, and release the **PTT** when listening.
4. To end the call, press . If the called person ends the call, the **Call Ended** message is displayed.

Making a Private Full-Duplex Call in TMO

1. Enter the number of the person you wish to call.
2. Press ✔.

   Select **Send** and press ✔ again.



3. Once the call is successfully initiated, you will hear a ringing tone. Wait for the called person to answer your call.
4. To end the call, press ✔. If the called person ends the call, the **Call Ended** message is displayed.

Receiving a Private Call in TMO

1. The MTM800 automatically switches to Private mode and starts ringing. The Private Call icon starts blinking, and the display shows the caller's identity.
2. To answer the incoming call, press **PTT**.
3. To end or cancel the call, press ✘. The display returns automatically to the mode it was before the incoming call arrived.

If the called person ends the call, the **Call Ended** message is displayed.

NOTE *For call alert, see settings in the Tones menu option (page 83).*

Receiving a Private Full-Duplex Call in TMO

1. The MTM800 automatically switches to Private Mode and starts ringing. The display shows the caller's identity.

2. To answer the incoming call, press **PTT**
3. To end or cancel the call, press ✘. The display returns automatically to the mode it was in before the incoming call arrived.

If the called person ends the call, the **Call Ended** message is displayed.

NOTE *For call alert, see settings in the Tones menu option (page 83).*

Private Call in DMO

If configured by your Service Provider it is possible to make and receive a Private Call in DMO. You can make or receive a DMO Private Call only when your MTM800 is in DMO.

NOTE *Private Calls via DMO Repeater and/or DMO Gateway are not supported.*

The calling and called party shall be on the same talkgroup.

Making a DMO Private Call

1. To enter the Private Mode press (key).
2. Enter a number like described in "Entering the Private Number" on page 49.
3. Press and hold **PTT**. Wait for the talk permit tone (if configured) before talking, and release the **PTT** when listening.
4. The call ends after a pre-programmed time, or if you press (key).

Private Mode
2234

NOTE *There is no presence check for Private Calls in DMO. This means you don't know whether the called party is available when you starts the call.*

Receiving a DMO Private Call

When a DMO Private Call is received, the call is started immediately without need to accept it by the called party.

Prvt in Use
David

1. Press **PTT** to talk back and start talking.
2. The call ends after a pre-programmed time, or if you press (key).

NOTE *If the called party presses the DMO private call is suspended for a specified time and in case the calling party is still transmitting the call is joined again.*

Dialling on Receiving a Call

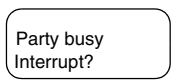
If you dial and a call is incoming, the MTM800 stays in current mode and the display remains unchanged while you hear the call. Dialling continues on current display.

NOTE *When an Emergency Call is received, then dialling is aborted, the MTM800 switches to the group mode and Emgcy In Use display appears.*

Making a Private PPC (Pre-emptive Priority Call)

NOTE *This feature is only available if set up by your Service Provider.*

1. Enter the private number and press **PTT**, or for a full-duplex call press , select **Send** and press again.



2. If the display shows the called user is busy, press to interrupt the on-going call, or if not press to end.
3. You will hear a ringing tone. Wait for the called person to answer your call.
4. Continue the call as in a regular half-duplex or full-duplex Private Call.

Call Queuing

When there are no available infrastructure resources for a call while in a setup phase, or while in an active call during cell re-selection, the call will be queued. The MTM800 will remain in queue for a pre-programmed period of time. If the resources become available, the call will proceed. If there are no resources after a certain period of time, the MTM800 will end the call.

Phone and PABX Calls

General

The **Phone Mode** allows you to call a landline telephone number or a cellular mobile phone number. In this publication we use “phone number” when referring to these numbers.

The **Private Automatic Branch Exchange (PABX) Mode** allows you to call local (office) extension numbers, if this mode has been activated by your Service Provider.

Both modes have the same dialling features.

For operating with MTM800 in RF sensitive areas, see “Transmit Inhibit” on page 35.

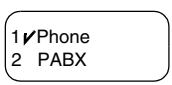
NOTE *While Transmit Inhibit is activated, an incoming Phone or PABX Call is indicated, but it is not possible to answer the call.*

NOTE *If your Service Provider has restricted access to the Address Book, it might not be possible to create a new contact, edit existing contacts or dial up a number which is not in the Address Book.*

Making a Phone or PABX Call

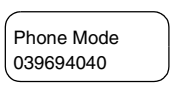
1. Press ☎.

Scroll to your selection using the navigation keys and press ✓.



2. Last dialled number is presented on your display just after changing to Phone/PABX Mode.

In this example, 039694040 is the last dialled phone number.



3. If this is the person you wish to call, press **PTT**.

4. To hang up, press ✕.

If you wish to talk to a person other than the one shown, you can enter another number in one of the following ways:

- last number redial,

- direct dial,
- speed dial,
- one-touch dial, or
- list scroll.

Press ⏻ to return to the mode display.

Last Number Redial

When no number is displayed, pressing **PTT** will redial the last dialled number.

Direct Dial

1. Dial the full phone number using the keypad.
2. To place the call, press **PTT**.
3. To hang up, press ⏻.

Speed Dial

Speed dial allows you to dial a shortened number of up to two digits instead of the full number. The speed dial number is the location of an entry in the address book.

1. Enter the pre-programmed speed dial number (for example: 5) and press (#).
2. To place the call, press **PTT**.
3. To hang up, press ⏻.

One-touch Dial

One-touch dialling allows you to place a call by pressing and holding one of the numeric keys (2 to 9). The number is the location of an entry (2 to 9) in the address book.

1. Press and hold the required numeric key for a few seconds. Your MTM800 will display the number and dial it.
2. To hang up, press ⏻.

NOTE *If the one-touch feature is enabled, one-touch dial is disabled (see page 17).*

List Scroll

1. To scroll backwards or forwards through the stored list of numbers and names, press ◄ or ►. The display will show aliases (names) whenever these have been entered. Where there are no aliases, the numbers will be displayed.
2. To place the call, press **PTT**.
3. To hang up, press ✕.

NOTE *When an alias is displayed, you can see the number by pressing ✓.*

DTMF Overdial

If set up by your Service Provider, DTMF allows you to communicate with an automated answering device (for example, the voice mail or answering machine) during an ongoing call.

While in an ongoing call, press the keys 0 to 9, *, #. When pressed, the key will sound a tone and the entered digit will be displayed on the screen.

Phone In Use
12345*#67890

Dialling on receiving a call

See “Dialling on Receiving a Call” on page 52.

Answering a Phone or PABX Call

1. The MTM800 automatically switches to Phone Mode and starts ringing. The Phone icon starts blinking.
2. To answer the incoming call, press **PTT** or any key (except Power On/Off).
3. To end or cancel the call, press ✕**.** The display returns automatically to the mode it was before the incoming call arrived.

If the called person ends the call, the **Call Ended** message is displayed.

NOTE *For call alert, see settings in the Tones menu option (page 83).*

Emergency Mode

General

In **Trunked Mode** (TMO) you can send an **Emergency Alarm** to the dispatcher and you can initiate and receive an **Emergency Group Call**. A terminal in TMO receives an Emergency Group Call to the selected group associated ATG (Announcement Talkgroup), or scanned group. If the ATG is the currently selected group, the terminal will receive the Emergency Group Call to the group associated with this ATG. (For information on the ATG, see page page 28.) Your MTM800 may also enables you to make an Emergency Group Call without the need to press and hold the PTT (Hot Microphone feature).

In **Direct Mode** (DMO) you can initiate and receive an **Emergency Group Call**.

Your Service Provider may configure

- the Emergency Group Call,
- the Emergency Private Call (if supported by the infrastructure),
- the Emergency Alarm,
- the Hot Microphone feature, and
- the Emergency Mode indication.

The terminal stays in Emergency mode when switching from TMO to DMO. The Emergency mode is also kept while switching from DMO to TMO if Emergency mode is available in TMO.

The calls will get emergency priority in the system.

These feature are active if the MTM800 is in service and attached to any talkgroup.

An Emergency Group Call is configured as non-tactical or tactical:

- A **non-tactical** call initiates on a talkgroup designated by your Service Provider. The group might be different than the one displayed on the terminal screen when starting the call. After exiting from non-tactical emergency mode the terminal will be attached to the group that was selected before initiating the non-tactical call. When in non-tactical emergency mode, you will not be able to switch talkgroups.

  DGNA messages have no impact during non-tactical emergency mode but only after exiting the non-tactical emergency mode.
- A **tactical** call initiates on the currently selected talkgroup.

NOTE *For call alerts, see settings in the Tones menu option (page 83).*

Entering TMO or DMO

Enter TMO or DMO in one of the following ways:

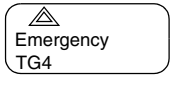
- Press and hold (TMO/DMO) for a few seconds

Entering or Exiting Emergency Mode

To enter Emergency mode from any mode, press .

NOTE *Upon entering Emergency Mode in TMO, the MTM800 will automatically send an Emergency Alarm to the dispatcher (if configured by your Service Provider).*

The terminal exits Emergency mode and switches to Group mode in one of the following cases:



- You press and hold .
- The terminal fails to attach to a non-tactical group.
- The system infrastructure detaches the selected non-tactical group.

NOTE *The required time you need to press the Emergency key is by default set to 0.5 seconds. The time can be configured by your Service Provider.*

NOTE *Pressing the Emergency Key even if Transmit Inhibit is activated causes immediately the terminal to radiate. When entering the Emergency Mode the terminal should not be within the RF sensitive area any longer!*

NOTE *The MTM800 interrupts the Ambience Listening call when you press the Emergency key* (▲).

Invisible Emergency

NOTE *This feature can be enabled/disabled by your Service Provider.*

Invisible Emergency mode is a type of emergency services that provides no audible indications and the display corresponds to the idle state for any Emergency operations. In this mode, only the user knows that the radio is in the Emergency mode and sends out Emergency alarm.

All the settings are restored when the user exits the Emergency mode.

To exit Invisible Emergency mode, the user needs to press the softkey labelled **Exit**.

Changing Range or Talkgroup

If the Emergency Group Call is configured to “tactical”, you can select a talkgroup other than the one displayed, press (▶) and then ✔.

To change the range press ●●, and proceed as explained in “Making a Group Call” on page 32.

Emergency in TMO

Sending an Emergency Alarm

Your MTM800 will send an Emergency Alarm (if configured by your Service Provider):

- Automatically, upon entering Emergency Mode
- If you press while the MTM800 is in Emergency Mode.
- If you change group while in Emergency Mode.

The screen will show one of the following delivery reports:

- **Alarm Sent**
- **Alarm Failed**

In both cases, the screen returns within a few seconds to the main screen of the Emergency mode.

Due to there being no delivery confirmation while in DMO, the **Alarm Sent** information confirms only the sending of the alarm.

Or – if configured by your Service Provider – your MTM800 will send an Emergency Alarm:

- If you press the Emergency button/footswitch without entering Emergency Mode before.
  - Other Emergency services such as starting TMO Emergency Mode or initiating Emergency Private Call (if supported by the infrastructure) will be unavailable.
  - No visible and audio indication on sending Emergency Alarm will be done.

NOTE *Some systems do not support the Emergency Alarm feature when the user is in a "Local Area Service" area. (See page 24.)*

Making an Emergency Group Call

To initiate or answer a call while in Emergency mode:

1. Press and hold **PTT**

2. Wait for the talk permit tone (if configured) and talk.

3. Release **PTT** to listen.

NOTE *Your MTM800 enters TMO by pressing the **Emergency** button (if configured by your Service Provider). The terminal attaches to the predefined talkgroup and starts the Emergency Group Call. If the predefined talkgroup is invalid the terminal attaches to the last selected talkgroup.*

Hot Microphone Feature

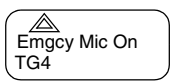
If the Hot Microphone feature was programmed into your MTM800 by your Service Provider, you can make an Emergency Group Call without the need to press and hold the **PTT**.

The following will happen upon entering Emergency mode:

1. The MTM800 will automatically send an Emergency Alarm to the dispatcher (if configured by your Service Provider).

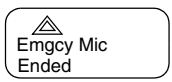
2. A talk permit tone will be heard.

3. The following typical display will appear:



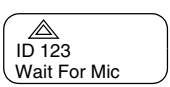
The microphone will stay open for a time period determined and programmed by your Service Provider.

After the Hot Microphone time period expires, or if you press **PTT** during the Hot Microphone period, the **Emgcy Mic Ended** message will be displayed, and the terminal reverts back to Emergency Mode. The Hot Microphone feature is now disabled and PTT operation reverts back to normal.



To resume, press (▲) again.

If talk permit is granted to another member of the group, an “Emergency call received” tone will be heard.



If configured by your service provider, your MTM800 will automatically attempt to get talk permit again and the **Wait For Mic** message will be displayed.

NOTE *During this pending time the MTM800 microphone is not active until the **Emgcy Mic On** message is displayed again.*

Receiving an Emergency Group Call

A terminal in TMO receives an Emergency Group Call to the selected group or associated ATG (Announcement Talkgroup), or scanned group. If the ATG is the currently selected group, the terminal will receive the Emergency Group Call to the group associated with this ATG. (For information on the ATG, see page 28.)

When the MTM800 receives the call, the display will show the caller's identity. If the display is idle, it will show **Emrgncy-In Use**.

If upon entering Emergency mode your MTM800 receives an emergency call, and Hot Microphone was enabled by your Service Provider, the **Wait For Mic** message will be displayed. Your MTM800 will attempt to get a talk permit.

Emergency in DMO

You can initiate an Emergency Group Call to a group.

You can receive a call from the selected talkgroup, and (if configured by your Service Provider) from other users within talkback range or from an open group. (An open group is a super-group to which all DMO groups belong.)

Emergency calls can be placed via gateway and repeater. For gateway and repeater settings, see "Gateway/Repeater Selection" on page 40.

Making an Emergency Group Call

To initiate or answer a call:

1. Enter emergency mode by pressing and holding the key.
2. Press and hold **PTT.**
3. Wait for the talk permit tone (if configured) and talk.
4. Release **PTT** to listen.

Receiving an Emergency Group Call

The display shows the caller's identity as a private number or an alias. If the display is idle, it will show **Emrgncy-In Use**.

GPS Location Service

General

Your terminal's GPS Location feature uses information from Global Positioning System (GPS) satellites orbiting the earth to determine the approximate geographical location of your terminal. The availability and accuracy of this location information (and the amount of time that it takes to calculate it) will vary depending on the environment in which you are using the terminal.

For example, GPS location fixes are often difficult to obtain indoors, in covered locations, between high buildings, or in other situations where you have not established a clear broad view of the sky.

See **"IMPORTANT – Things to Keep in Mind"**.

The GPS location Service can assist your Dispatcher or Colleagues in many ways such as more efficient deployment of resources or locating your terminal if you trigger your emergency service.

The terminal can be configured to display location information on the terminal's display or to send it over the air to your dispatcher where it can be displayed in control center (Please check with your Service Provider on the configuration of your terminal).

IMPORTANT – Things to Keep in Mind

Where adequate signals from multiple satellites are not available (usually because your GPS antenna cannot establish a view of a wide area of open sky), the GPS feature of your terminal WILL NOT WORK. Such situations include but are not limited to:

- In underground locations
- Inside of tunnels or parking garages
- Under any other metal or concrete roof or structure
- Near a powerful radio or television tower

- When your GPS antenna is covered (for example, by your hand or other object) or facing the ground
- In temperature extremes outside the operating limits of your terminal

Even where location information can be calculated in such situations, it may take much longer to do so. Therefore, in any emergency call, always report the location to your dispatcher.

Furthermore, please note that even where adequate signals from multiple satellites are available, your GPS feature will only provide an approximate location, often within 20 – 100 meters from your actual location.

Enhancing GPS Performance

Sometimes the GPS feature of your terminal may be unable to complete a location calculation successfully. You will see a message indicating that your terminal cannot see enough visible satellites.

To maximize the ability of your terminal to determine a location fix please note the following guidelines:

- The GPS feature works best where there is nothing between your terminal and a large amount of open sky. If possible, go outside, away from tall buildings and foliage.
- Position your motorcycle to enhance reception, giving the antenna clear access to satellite signals. Signals from GPS satellites are transmitted to your GPS antenna, which is in your terminal antenna. Do not cover the antenna area with your fingers or anything else.
- Stay in network coverage. Depending on who your service provider is, the network will provide your terminal with information that helps determine your location more quickly and accurately.

GPS Enable/Disable (9 2)

1. From the main menu, press **– 9 Location – 2 Interface**.

The current selection (On/Off) is highlighted. The display shows:

On — Location Service On

Off — Location Service Off

2. Scroll to your selection and press .

If GPS is enabled but the radio is not synchronized to the GPS satellites the following idle screen is displayed:

Range 1
No GPS signal

Entering GPS Location Service (9)

To enter the GPS sub-menu, press **– 9 Location**.

1 Position
2 Interface

Position — provides the actual position information.

Interface — allows you to enable/disable the GPS location service.

This estimate of accuracy of the calculated location is only a very rough estimate and may vary substantially from the actual accuracy of the approximate location information reported.

NOTE

- *The variation will vary in accordance to the GPS Configuration set by your Service Provider.*
- *The availability of the GPS Location menus is dependent on your terminal configuration, please contact your Service Provider for further details.*

Viewing Your Position (9 1)

1. From the main menu, press **– 9 Location – 1 Position**.

2. This displays the following information about the last time your location was calculated (if available):

UTC — The **time** the location was last calculated.

LAT — The **latitude** expressed in degrees, minutes, and seconds.

LNG — The **longitude** expressed in degrees, minutes, and seconds.

SAT — The **number of satellites** used to calculate the location. In general, more satellites make for better accuracy.

3. Scroll to view the entire screen.

For tips on getting the best location calculation, see “Enhancing GPS Performance” on page 64.

4. Press to return to the previous screen.

Each time approximate location of your terminal is calculated, the latest location information is stored in your terminal and remains there even when your terminal is powered off. You will see this information the next time you view the **Position** screen.

If you received a terminal call or alert while attempting to determine your location, the **Position** screen will disappear, but your terminal will continue attempting to determine its location. If it is successful, the new location information will be displayed the next time you view the **Position** screen.

The Menu

Entering the Menu Options

You can enter the menu options during a call. If you are viewing a menu when a new call starts, the terminal will exit the menu.

By Scrolling

1. From any mode, press to enter the Menu.

2. To scroll to the required option (such as **2 Addr. Book**), press the navigation keys.

3. To enter the option, press **.**

If the sub-menu contains a further set of sub-menus as in the example below, repeat steps 2 and 3.

By Shortcut

You can use the number next to the option as a shortcut to access the required sub-menu.

1. From any mode, press .

2. Key the number of the required option.

For example, to reach **4 Mem Usage** of the example below, press and key the option numbers **2 1 4.**

Exiting the Menu Options

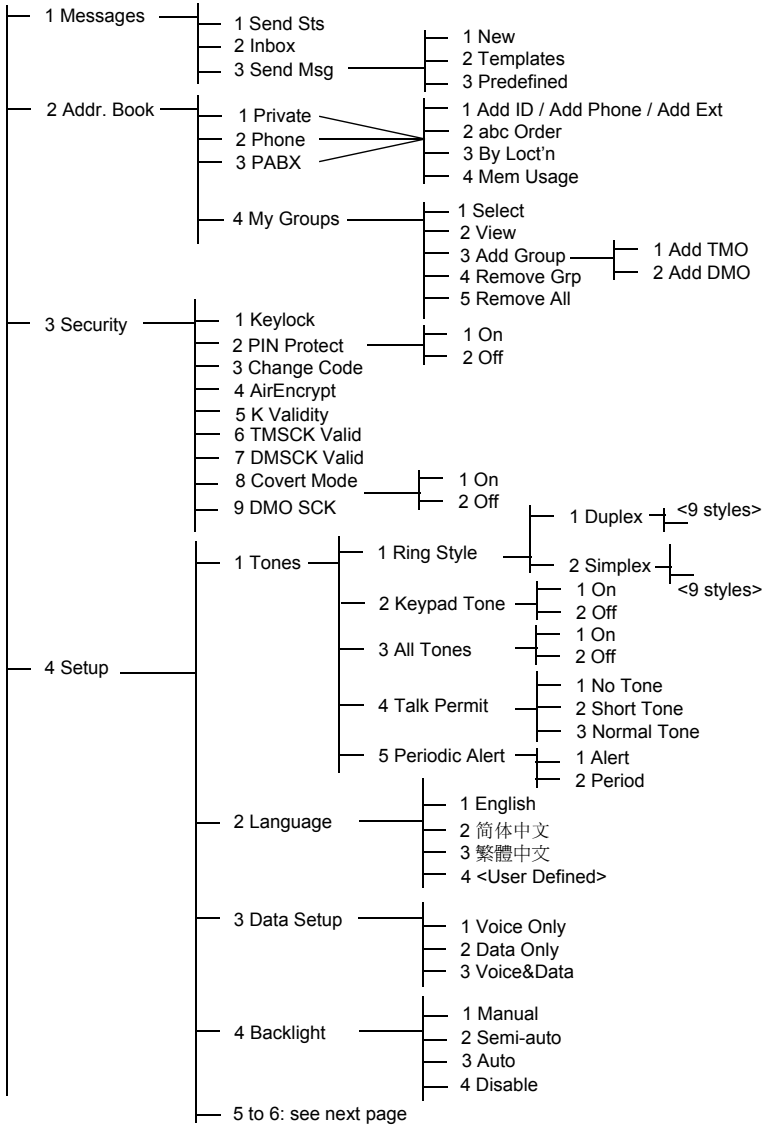
To exit the menu or sub-menu, press or .

Exiting the Menu

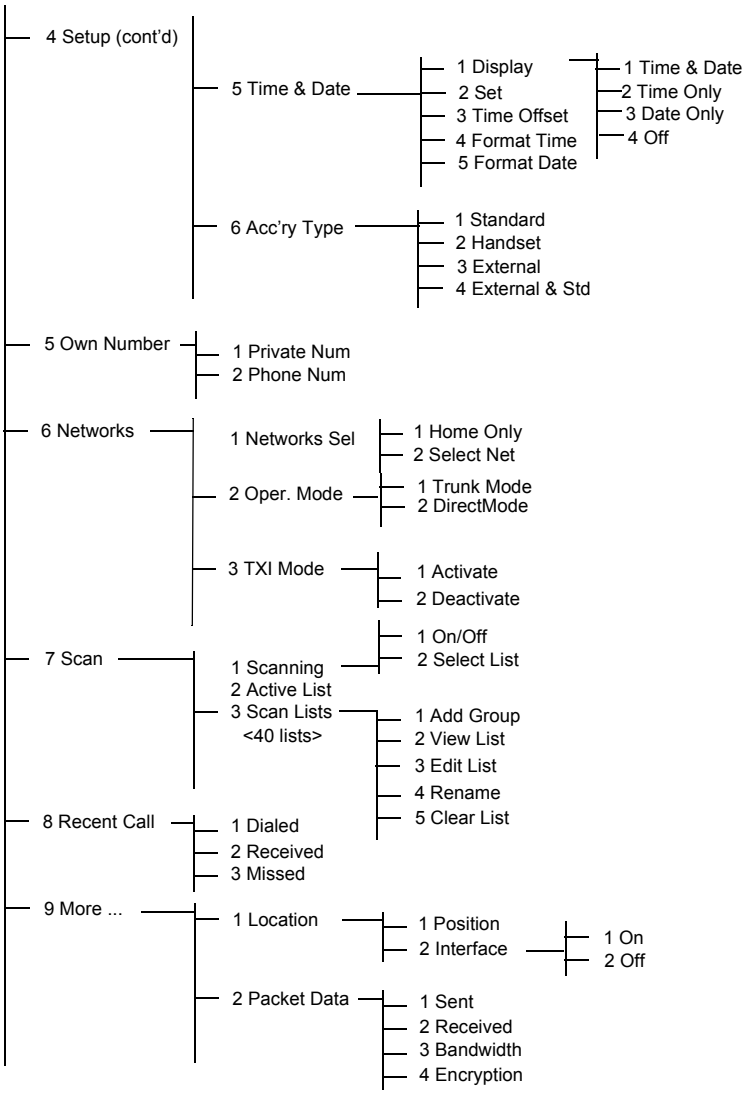
Press and hold from any menu option. The display returns to the mode previous to entering the Menu.

NOTE *If enabled by your Service Provider, the menu could time out if no keypresses are detected for a preset period of time.*

List of Menu Options



List of Menu Options (Cont'd)



NOTE *It is possible that some menu numbers are different than the listed. Some options can be enabled/disabled by your Service Provider which can cause the exact menu index numbers to vary.*

Messages (1)

Refer to “Messages” on page 94 for details.

Address Book (2)

To enter the Address Book sub-menu, press **– 2 Addr. Book**.

3 PABX
1✔Private

- This sub-menu allows you to add, search, edit, or erase entries in the private, phone and PABX address books.

NOTE *Updating your private call address book is done in the same way as updating the phone address book and the PABX address book. When using shortcuts to reach the relevant sub-menus, be sure to use the correct digit sequences referenced in the list of menu options on page 68.*

NOTE *If set up by your Service Provider, it is not possible to create or edit an Address Book entry or to dial a number which is not in the Address Book. The menu items for creating, editing, and deleting contacts in the Address Books are not available.*

- Select, view, add, or remove favourite groups.

3 PABX
4✔My Groups

Updating the Private Call Address Book (2 1)

To enter the sub-menu, press **– 2 Addr. Book – 1 Private**.

4 Mem Usage
1✔Add ID

This sub-menu allows you to edit your private call address book.

Adding a Number (2 1 1)

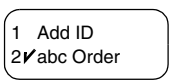
To enter the sub-menu,
press **– 2 Addr. Book – 1 Private** – 1 Add ID.

NOTE ***1 Add ID*** *changes to* ***1 Add Phone*** *or to* ***1 Add Ext.*** *depending on the address book edited.*

1. Press . The MTM800 will prompt you to add an entry to the existing list. The entry is composed of a number, name, and location. First enter the number and name.
2. Press to confirm. Then select the location of the entry in the list.
3. The first empty location (if any) is suggested as the default location for storing the entry. You can select another location either by scrolling through the list of locations or by typing the location number. If a location is already used, you will be prompted to overwrite the existing entry started in that location.
4. When the entry is successfully stored, the display returns to the entry adding screen within a few seconds.

Searching the Address Book Alphabetically (2 1 2) *or by Location* (2 1 3)

1. To enter the sub-menu,
   press **– 2 Addr. Book – 1 Private** and **2 abc Order** or **3 By Locat'n**.



2. Scroll through the list alphabetically (or type the first letter of the name you are searching in the pre-stored list). Alternatively, scroll through the list by location (or type the location number).

   After finding a number, press **PTT** to start a call.
3. Scroll to your selection:
   - **Edit** the entry (see "Editing the Text" on page 15). The original location is suggested as the default location for storing the edited entry.

     To select another location, scroll through the list of locations or type the location number. If a location is already

used, you will be prompted to overwrite the existing location.

When the location is successfully stored, the screen returns to the list display.

- **Erase** the entry. The screen returns to the list display.

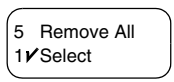
Memory Usage (2 1 4)

To enter the sub-menu,
press – **2 Addr. Book – 1 Private – 4 Mem Usage**.

This screen shows how much memory is left to add new entries to the address book.

My Groups (2 4)

Once in the menu, select **2 Addr. Book – 4 My Groups**.



This sub-menu allows you to edit your favourite group list.

Entering My Group (2 4 1)

1. Once in the menu, select **2 Addr. Book – 4 My Groups – 1 Select**.

My Groups is displayed as the selected range alias. You can now scroll through the favourite group list. Press to select.

NOTE *My Groups range is situated after the last range. Scrolling past the last group in the My Groups range will therefore bring you back to the first valid range.*

When selecting “My Groups” and no groups exist from the current DMO/TMO mode, you may be forced to switch to DMO from TMO or TMO from DMO. In this case you will be prompted to accept the mode change.

Viewing My Group (2 4 2)

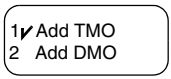
1. Once in the menu, select **2 Addr. Book – 4 My Groups – 2 View**.

2. Scroll through the favourite group list.

Adding a Group to My Groups (2 4 3)

1. Once in the menu, select **2 Addr. Book – 4 My Groups – 3 Add Group**.

2. Select one of the following:



Add TMO — You may choose any TMO Range/Group.

Add DMO — You may choose any DMO Range/Group.

Removing a Group from My Groups (2 4 4)

1. Once in the menu, select **2 Addr. Book – 4 My Groups – 4 Remove Grp**.

2. Select the group you wish to remove. In the “Remove?” prompt screen, select **Yes** to confirm removal.

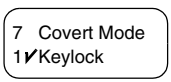
Removing All Groups from My Groups (2 4 5)

1. Once in the menu, select **2 Addr. Book – 4 My Groups – 5 Remove All**.

2. In the **Remove?** prompt screen, select **Yes** to confirm removal.

Security (3)

To enter the Security sub-menu, press **– 3 Security**.



Locking/Unlocking the Keypad (3 1)

To prevent accidental key presses:

1. From the sub-menu, select **1 Keylock.** All keys are locked except the **On/Off** key.

NOTE *When there is an incoming call and the keypad is locked, you can still use* **PTT,** , *and* **.**

2. To unlock the keypad, press 3 1.

NOTE *The Emergency Key is not locked. Entering Emergency Mode, unlocks all keys.*

PIN Protect (3 2)

Network access protection is configured by your Service Provider:

No access to network operation — You can only send or receive Emergency Calls. Unit lock takes effect at the next power on.

To protect access to network operation:

1. From the sub-menu, select **2 PIN Protect.**
2. Select **1 On** to set the protection (or **2 Off** to cancel it).
3. At the **Code?** prompt enter the 4-digit code (factory setting is “0000”). To avoid disclosure of the PIN, asterisks are displayed instead of the code digits. The display will show one of the following messages:

   Unit Locked — You entered the correct code. The display returns to the Security sub-menu and shows the active setting: **1 On**.

   Unit Unlocked — You entered the correct code. The display returns to the Security sub-menu and shows the active setting: **2 Off**.

To unlock the MTM800 after powering on, enter the code at the prompt. The MTM800 enters the default home mode.

If you fail to enter the correct code, the following message will be displayed:

Incorrect Code Entered — You are prompted to try again. After failing three times, your MTM800 will be blocked.

How to unblock the MTM800

The display shows **Unit Blocked**. When your MTM800 is blocked, you cannot send or receive calls. You can only enter a code or power off the MTM800.

To unblock the MTM800, enter the PUK (Personal Unblocking Key). The PUK is an eight-digit master code to be obtained from your Service Provider.

After entering the PUK successfully, you will be prompted to replace the forgotten PIN code.

At the **New Code?** prompt, enter the new 4-digit code, and repeat the code to confirm. If the code does not match, you will be prompted to enter it again until the new code message is accepted.

Change Code (3 3)

NOTE *The standard factory lock code is "0000".*

To change the PIN code:

1. Select **3 Change Code** and press .
2. At the **Old Code?** prompt, enter the 4-digit code.
   - If the old code does not match at verification, the display shows the **Incorrect Code Entered** message and returns to the Security sub-menu.
   - If the entered code matches the old code, the display prompts you to enter a new 4-digit code and to repeat it for confirmation. If the confirmation code does not match the new code, the display prompts you to re-enter the new code.
3. When the new code is accepted, the display returns to the Security sub-menu.

Air Encryption On/Off (3 4)

To enter the sub-menu, press **– 3 Security – 4 AirEncrypt**.

This sub-menu allows you to view air encryption On/Off state.

Call encryption provides service confidentiality between you and the system.

If encryption is on and you receive a clear call (i.e. un-encrypted), the MTM800 will display a **Call Isn't Encrypt** message.

NOTE *You cannot manually disable Air Encryption (if enabled) from the menu. This menu item only indicates if Air Encryption is enabled at that moment.*

NOTE *The Air Encryption feature is ONLY enabled depending on your Service Provider.*

Air Encryption Key Deletion

Please check with your Service Provider whether the terminal is provided with air interface encryption keys.

You can delete the air interface encryption keys from the terminal by entering the following sequence from the keypad: **00##

CAUTION	*Using this feature will disable the terminal, and your Service Provider will need to re-enable the terminal.*

K Validity (3 5)

Once in the menu, select **3 Security – 5 K Validity**.

K (Key) is a secret key the infrastructure uses to authenticate the MTM800 in the system. It is part of the authentication that provides service confidentiality between your MTM800 and the system.

To verify K validity, press **Ok.** The display will show one of the following messages:

K is Valid — the infrastructure can authenticate your MTM800.

K is Invalid — the infrastructure shall not authenticate your MTM800. Please call your Service Provider to restore K to your MTM800.

TMSCK Valid? (3 6)

Once in the menu, select **3 Security – 6 TMSCK Valid?**

SCK (Static Cipher Key) is a secret key the infrastructure uses to encrypt call and data in the system. Air interface encryption provides service confidentiality between your MTM800 and the system. Your MTM800 should be provided with a set of SCKs.

To verify SCK validity for TMO, press **Ok**. The display will show one of the following messages:

TMSCK is Valid — your MTM800 can work encrypted in TMO.

TMSCK is Invalid — your MTM800 cannot work encrypted in TMO. Please call your Service Provider to restore SCKs to your MTM800.

DMSCK Valid? (3 7)

Once in the menu, select **3 Security – 7 DMSCK Valid?**

SCK (Static Cipher Key) is a secret key the infrastructure uses to encrypt call and data in the system. Air interface encryption provides service confidentiality between your MTM800 and the system. Your MTM800 should be provided with a set of SCKs.

To verify SCK validity for DMO, press **Ok**. The display will show one of the following messages:

DMSCK is Valid — your MTM800 can work encrypted in DMO.

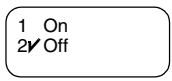
DMSCK is Invalid — your MTM800 cannot work encrypted in DMO. Please call your Service Provider to restore SCKs to your MTM800.

Covert Mode (3 8)

From the main menu, select **3 Security – 8 Covert Mode**.

Set Covert Mode to On

Select **1 On**. All tones are set to off, and the backlight and the LED are disabled immediately.



NOTE *The audio is further more routed to the external loudspeaker – if connected – until the loudspeaker is switched off. It is recommended to use e.g. a headset in Covert Mode.*

Set Covert Mode to Off

Select **2 Off**. All settings for tones and backlight are restored. The LED is enabled and the message **Covert Mode Off** is shown.

DMO SCK (3 9)

Once in the menu, select **3 Security – 9 DMO SCK**.

Key version is displayed when you select the option.

Air Interface encryption provides service confidentiality between your MTM800 operating in Direct Mode and another terminal or a group of terminals operating in Direct Mode.

You can change the current key, if the key change operation is allowed by your Service Provider.

To change the key, if not in a call, select **Next**. The display will show the following message: **Change to version...**

- Select **Yes** to change the key. **Key version changed** display will appear.
- Select **No** to leave the key. **Key version** display will appear.

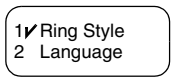
Setup (4)

To enter the sub-menu, press **– 4 Setup**.

This sub-menu allows you to change your MTM800 configuration: key tones, language, ring style, time, date, or data setup.

Setting the Ring Style (4 1)

This option allows you to set the incoming call ring style. Your MTM800 features nine selectable ring styles for **Duplex** and **Simplex** calls.



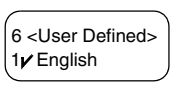
1. Press **– 4 Setup – 1 Ring Style – 1 Duplex** or **2 Simplex**. The display shows the current ring style used (ring style **1 British**, in this example).

2. Scroll to the desired style and press .

You will hear the new ring style immediately. If necessary, turn the Volume knob to adjust the volume.

Setting the Display's Working Language (4 2)

Once in the Setup sub-menu, select **2 Language**.



The display shows the current language used. You can customize your MTM800 to operate in English, Simplified Chinese, Traditional Chinese, or in a language defined by your Service Provider. The default setting from factory is English. The default setting from factory is English.

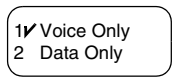
Scroll to the desired language and press **.** The display shows the selected language for a few seconds.

Setting Up Data Mode (4 3)

You can connect the MTM800 to an external device (such as a laptop or desktop PC). The MTM800 will then be capable of transmitting and receiving data from the external device. The external device must run an application complying with the TETRA standards.

Once in the Setup sub-menu, select **3 Data Setup**.

The display shows the current setting:



Voice Only — the MTM800 will receive and transmit voice calls only.

Data Only — the MTM800 acts as a modem. The MTM800 will reject incoming and outgoing voice calls, except for emergency calls, status and text messages.

Voice&Data — the MTM800 acts as a modem but voice calls will have priority over data calls and will interrupt them.

Scroll to the desired setting and press **.**

In **Data Only** and in **Voice&Data** modes, the “Data Connected” icon is displayed after you have connected the MTM800 to the external device and the MTM800 is ready for data transfer. The Data Transmit/Receive icon indicates that data transfer is currently taking place.

The MTM800 ends the Ambience Listening (AL) call and the microphone is closed when the MTM800 is in one of the following states:

- Entering the out-of-service area
- Outgoing packet data call setup

To exit data mode, return to **3 Data Setup** and select **Voice Only**. The MTM800 returns automatically to Voice communication, except when in Data Only Mode.

NOTE *Data services are available only in TMO. Data Services are blocked in TXI Mode.*

Setting Backlight (4 4)

Once in the Setup sub-menu, select **4 Backlight**.

This option allows you to configure your MTM800's backlight setting (see also "Dimming the Display" on page 25).

Your MTM800 has four backlight settings:

Manual (4 4 1)

Press the # to change the backlight intensity in four steps.

Semi-Auto (4 4 2)

Press # to turn on or turn off the backlight. Any other key press does not turn the backlight on. The backlight remains on until you press the # to turn it off, or a pre-programmed timer runs out.

Auto (4 4 3)

Any key press turns the backlight on. The backlight remains on until you press # to turn it off, or a pre-programmed timer runs out.

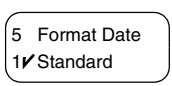
Disable (4 4 4)

The backlight feature is disabled.

Setting Time & Date Features (4 5)

Once in the Setup menu, select **5 Time&Date**.

This sub-menu allows you to control the displayed time and date.



Time&Date Display Settings (4 5 1)

Once in the Setup menu, select **5 Time&Date**, and then **1 Display**.

The display shows the current setting:

1. **Time&Date** — The MTM800 displays time and date.
2. **Time Only** — The MTM800 displays time only. **Format Date** option is disabled.
3. **Date Only** — The MTM800 displays date only. **Format Time** option is disabled.
4. **Off** — The MTM800 does not display time nor date. **Format Time** and **Format Date** options are disabled.

Scroll to the desired setting and press . Press to exit.

NOTE *Time and date are synchronized by the infrastructure. When not within the infrastructure signal range you can set the values manually.*

Setting Time and Date (4 5 2)

To set time and/or date:

1. Enter the **Setup** menu.
2. Select **Time&Date**, and press .
3. Select **Set**, and press .

Enter time using **2**(Up), **8**(Down) keys for adjustment and navigation keys or **4**(Left), **6**(Right) keys for navigation. Press . Press to exit.

Setting Offset (4 5 3)

To set local time offset:

1. Enter the **Setup** menu.
2. Select **Time&Date**, and press .
3. Select **Time Offset**, and press .

Enter offset value using **2**(Up), **8**(Down) keys for adjustment and navigation keys or **4**(Left), **6**(Right) keys for navigation. Press ✓. Press ✕ to exit.

NOTE *You can adjust the offset value, with 15 minute steps, up to 14 hours ahead or behind.*

Setting Time Format (4 5 4)

To change displayed time format between 24-hour scale and 12-hour scale:

1. Enter the **Setup** menu.

2. Select **Time&Date**, and press ✓.

3. Select **Format Time**, and press ✓.

Choose required setting and press ✓. Press ✕ to exit.

Setting Date Format (4 5 5)

To change displayed date format between DD/MM/YY, MM/DD/YY and DD-MON-YY:

1. Enter the **Setup** menu.

2. Select **Time&Date**, and press ✓.

3. Select **Format Date**, and press ✓.

Choose required setting and press ✓. Press ✕ to exit.

Setting Tones (4 6)

Once in the Setup sub-menu, select **6 Tones**.

This sub-menu allows you to activate/deactivate the keypad tones and other tones used in the MTM800.

```
1✓Keypad Tone
2  All Tones
```

Scroll to the desired setting and press ✓.

The display shows the current setting. When set to **On**, the MTM800 will sound a tone at every key press. When set to **Off**, the MTM800 will mute the keypad tone.

```
1✓On
2  Off
```

For a detailed list of tones, see “Tones” on page 107.

Setting Keypad Tone (4 6 1)

To activate/deactivate keypad tone at every key press:

1. Enter the **Setup** menu.

2. Select **Tones**, followed by **Keypad Tone**, and press .

3. Scroll through the settings by using the navigation keys.

4. Choose required setting, and press to select, or press to exit.

Setting All Tones (4 6 2)

To activate/deactivate all tones (keypad tone and other activity tones used in your MTM800):

1. Enter the **Setup** menu.

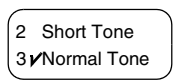
2. Select **Tones**, followed by **All Tones**, and press .

3. Scroll through the settings by using the navigation keys.

4. Choose required setting, and press to select, or press to exit.

Setting Talk Permit Tone (4 6 3)

There are 3 tone settings:



No Tone — no tone heard upon pressing the **PTT**.

Short Tone — a short tone heard upon pressing the **PTT**.

Normal Tone — the factory-default tone heard pressing the **PTT**.

To change your Talk Permit Tone settings:

1. Enter the **Setup** menu.

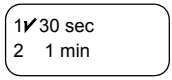
2. Select **Tones**, followed by **Talk Permit**, and press .

3. Scroll through the settings by using the navigation keys.

4. Choose required setting, and press to select, or press to exit.

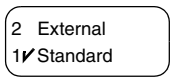
Setting Periodic Alert (4 6 4)

This feature can be disabled/enabled by the user. With the also to set the period of time between the indications.



Setting Accessory (4 7)

Once in the Setup sub-menu, select **7 Acc'ry Type.**



You can select one of the following options:

Standard — Select this if a Fist Microphone and an external speaker are connected.

Handset — Select this if a Telephone Style Handset is connected.

External — Select this if an external microphone and an external speaker are connected.

External & Std — Select this option if the external mic is to be default one unless PTT is pressed.

NOTE *Accessories has to be configured by MS/CPS user in order to use them.*

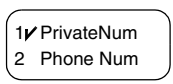
Own Number (5)

Use this feature to view your own private or phone number at any time.

To enter the sub-menu, press **5 Own Number**.

Viewing Private Number (5 1) or Phone Number (5 2)

To enter the sub-menu, press **5 Own Number** and **1 PrivateNum** or **2 Phone Num**.



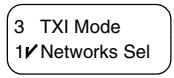
The displayed private number cannot be modified.

To modify the displayed phone number, press **.** The new phone number does not modify the MTM800 number in the system.

Network (6)

To enter the sub-menu, press **6 Networks**.

This sub-menu allows you to select the network your MTM800 will be registered to, and what mode it operates on.



Selecting Your Network (6 1)

This sub-menu allows you to select the network your terminal will be registered to.

Selecting Home Only Network Registration (6 1 1)

To enter the sub-menu, press **– 6 Networks – 1 Networks Sel – 1 HomeOnly**.

Selecting this option causes your MTM800 to recognise the first network on the allowed Network List only and to register to it.

Using the Select Net Option Registration (6 1 2)

To enter the sub-menu, press **– 6 Networks – 1 Networks Sel – 2 SelectNet**.

If configured by your service provider, this option allows you to select manually the network from the allowed Network List you want your MTM800 to be registered to.

The list of the allowed networks is displayed.

Scroll to the desired network and press .

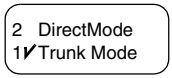
The display shows **XXX Selected**. The XXX stands for the name of the network selected.

After a few seconds the display returns to the Network sub-menu.

NOTE *It is up to your service provider to ensure your own terminal identity is allowed to register on other networks in your list. Some talkgroups may not be available on other networks.*

Setting Operating Mode (6 2)

To enter the sub-menu,
press – **6 Networks – 2 Oper. Mode**.



This sub-menu allows you to select the mode your MTM800 will be operating on.

To set up your operating mode:

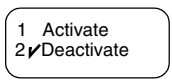
Select **2 DirectMode**, or **1 Trunk Mode**, and press **.**

NOTE *It is not possible to switch from Direct Mode to Trunk Mode, if the terminal is in Transmit Inhibit Mode.*

NOTE *To change the Operating Mode quickly you can press .*

Setting Transmit Inhibit (TXI) Mode (6 3)

To enter the sub-menu,
press – **6 Networks – 3 TXI Mode**.



This mode should always be set before entering areas where transmission is prohibited, e.g. in hospitals or in potentially explosive areas.

To activate the TXI Mode:

- Select **1 Activate**, and press .

The terminal will sound the “Transmit Inhibit” tone. The display blinks between the Talkgroup name and the message “TXI Mode”, and the solid orange LED indicates the TXI Mode.

NOTE *All menu options which cause transmitting are blocked in TXI Mode. It is not possible to change the Talkgroup.*

To deactivate the TXI Mode, e.g. after you have left the area where transmission is prohibited:

- Select **2 Deactivate**, and press .

The terminal sounds the “Transmit Inhibit” tone and returns back to Group Mode or Direct Mode, if Direct Mode was the last selected mode.

Scan (7)

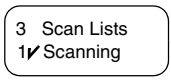
To enter the sub-menu, press **7 Scan**.

This sub-menu allows you to activate/deactivate scanning, view the active scan list, and edit the scan lists.

NOTE *It is not possible to enable or disable Talkgroup scanning in TXI Mode.*

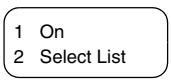
Setting Talkgroup Scanning (7 1)

To enter the sub-menu, press **– 7 Scan – 1 Scanning**.

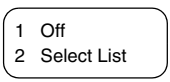


This sub-menu allows you to activate/deactivate the scanning of a list of predefined talkgroups programmed in the MTM800. The MTM800 will join any talkgroup call as long as this talkgroup is defined in the scan list and scan is turned on.

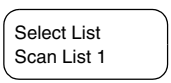
Scroll to the desired setting and press **.** If it is set to **Off**, display shows the following state:



When set to **On**, the display shows following state:



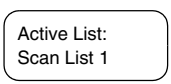
To select a list other than the one shown, scroll through the scan lists and press .



After completing the settings, the display returns either to the Scan sub-menu or to Group mode.

Viewing the Active Scan List (7 2)

To enter the sub-menu, press **– 7 Scan – 2 Active List**.



This sub-menu allows you to view the active scan list.

The display will show one of the following statuses:

- There is a selected, inactive scan list. Scanning is off.
- There is no selected scan list. Scanning is off.
- There is a selected, active scan list. Scanning is on.

To see the talkgroup status (active or not active) and priority (if pre-programmed), press ✓, and scroll through the talkgroups.

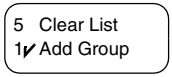
Editing Scan Lists (7 3)

To enter the sub-menu, press **– 7 Scan – 3 Scan Lists**.

The display allows you to scroll through the scan lists to see the number of talkgroups used per list.

To edit/view the contents of a scan list, press ✓ and scroll to your selection.

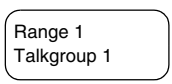
Press ✓ to select one of the following options:



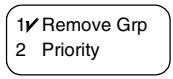
1. **Add** a talkgroup to the selected scan list.
   Every added talkgroup (including a favourite group) comes with its range, its name or number, and its priority (if pre-programmed).
   - To select a range, scroll through the range list. The list does not show ranges whose talkgroups are fully used in the selected scan list. Press ✓ to select a range.
   - To select a talkgroup, scroll through the talkgroup list within the selected range. The list shows talkgroups that are not in the selected scan list. Press ✓.
   - To set a priority to a talkgroup, scroll through the priority list: high, medium, or low.

   A call from a high priority talkgroup and with a higher priority than the on-going call will interrupt it.

   A call from a medium/low priority talkgroup will not interrupt the on-going call.
2. **View** the contents of the active scan list (range, talkgroup, and priority if pre-programmed) by scrolling through it.



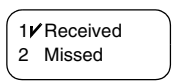
3. **Edit** the scan list talkgroups. Scroll to your selection and press ✔. Scroll to one of the following options:
   - To **Remove** a talkgroup from the selected scan list, select **1 Remove Grp** and press ✔. You will be prompted to remove the selected talkgroup. After a few seconds, the display shows the following talkgroup in the selected scan list.



   - To change the talkgroup **Priority**, select **2 Priority** and press ✔. Scroll to the selected priority and press ✔. After a few seconds, the display shows the new setting of the selected talkgroup.
4. To **Rename** the active scan list, enter a new name (alias) and press ✔. The display shows the new setting.
5. To **Clear all** talkgroups from the selected scan list, press ✔. You will be prompted to remove all talkgroups from the selected scan list. After a few seconds, the display shows the new setting of the selected scan list.

Recent Calls (8)

You can view the history of all calls:



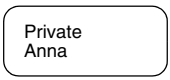
- Dialled Calls
- Received Calls — calls you answered
- Missed Calls — calls received but not answered, or rejected by the MTM800.

Each list of calls may contain up to 10 numbers for all modes (Phone, PABX, or Private), the more recent call being at the top of the list. Old calls are deleted to make room for new ones, if necessary. A number dialled more than once, will appear only once in the list.

Upon receiving a missed call notification, the MTM800 will display the Missed Calls list.

When a call is received during an active call, the number is written to the Missed Calls list. This list will be invoked automatically at the end of the call.

1. From the menu, select **8 Recent Calls.**
2. Scroll to the desired history and press ✓.
3. Scroll through the list of calls. Select Erase to remove an entry from the list. If required, enter the context sensitive menu to save numbers without names in the address book. See “Address Book” on page 70.



4. You can make a Phone, PABX, or Private Call from the entry, depending on the entry you are selecting in the list.

NOTE *If your Service Provider has restricted access to the Address Book, it might not be possible to dial up a number which is not in the Address Book.*

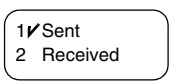
5. After completing the call, the MTM800 will return to the Received/Missed/Dialled list, displaying the called number and allowing you to delete or save the number in the address book.

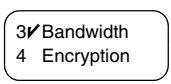
Location (✓ 9 1)

Refer to “GPS Location Service” on page 63 for details.

Packet Data (✓ 9 2)

This menu item allows you to display statistical values related to a packet data connection. If Multi Slot Packet Data Service is enabled by your Service Provider the screens present the following information:





- Amount of sent data,
- Amount of received data,

- Bandwidth of the data session
- Data encryption status.

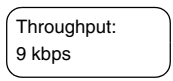
NOTE *Data services are only available in TMO. The data option must be set to Voice&Data or Data Only. (Refer to "Setting Up Data Mode" on page 80).*

Viewing Sent Data Statistics (9 2 1)

1. In the Packet Data sub-menu select **1 Sent**.
2. The number of KBytes sent since current packet data activation is displayed.

3. Press to toggle the two screens.

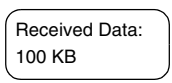
   Throughput: 9 kbps (e.g.) — active packet data session.



   Throughput: N.A. — standby packet data session.
4. Press to exit.

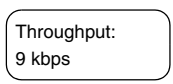
Viewing Received Data Statistics (9 2 2)

1. Select **2 Received i**n the Packet Data sub-menu.
2. The number of KBytes received since current packet data activation is displayed.



3. Press to toggle the two screens.

   Throughput: 9 kbps (e.g.) — active packet data session.



   Throughput: N.A. — standby packet data session.
4. Press to exit.

Viewing Bandwidth Status (9 2 3)

The bandwidth percentage represents the number of allocated time slots ("channels") during the data session.

1. Select **3 Bandwidth** in the Packet Data sub-menu.

2. The bandwidth percentage is shown:
   75% (e.g.) — active packet data session,
   N.A. — standby packet data session.

Bandwidth:
75%

NOTE

Your Service Provider has set the maximal number of time slots to allocate to 1, 2, 3, or 4. The bandwidth percentage refers to the possible number of slots (1, 2, 3, or 4) as 100%.
***Example**:*
50% is displayed, if 2 of 4 possible slots are allocated.
100% is displayed, if 4 of 4 possible slots are allocated.
100% is displayed, if 1 of 1 possible slot is allocated.

3. Press ⊠ to exit.

Viewing Encryption Status (9 2 4)

1. Select **4 Encryption** in the Packet Data sub-menu.
2. The encryption state of the ongoing packet data session is displayed:
   - **Encrypted**
   - **Not Encrypted** (clear)

Packet Data
Encrypted

3. Press ⊠ to exit.

Messages

General

The messaging feature let you

- send status messages.
- send short text messages (free text or according to user defined or predefined templates), and
- receive text messages.

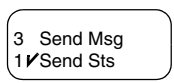
A status is a number corresponding to a pre-programmed message in a list your group recognises. A text message is a short text containing up to 140 characters.

NOTE *If configured by your Service Provider it is only possible to send a message to a private number that is stored in the Address Book.*

Entering the Messages Sub-menu

To enter the Messages sub-menu, press **– 1 Messages**.

The sub-menu allows you to



- send status messages,
- read text messages, and
- send text messages.

Scroll to your selection and press to access the next display.

NOTE *Your MTM800 can receive calls while in the Messages sub-menu.*

NOTE

- *It is not possible to send a status or text message in TXI Mode.*
- *It is not possible to send a status or text message during a call in DMO*

When a new message arrives, the icon blinks on your display (the icon stops blinking when you enter the Inbox).

NOTE *If configured by your Service Provider, the MTM800 sounds the "New Mail Received" alert tone if a new message is received whilst your terminal is engaged in a call.*

Your MTM800 will enter the Inbox automatically and the icon will not blink.

Sending a Status Message (1 1)

1. Switch to the desired talkgroup, to which you want to send a status message.
2. Press from any mode, or press **– 1 Messages – 1 Send Sts**.
3. In this example, **Lunch** is the last sent status. If you wish to send a different status, scroll to your selection in the list of pre-programmed statuses, or key the status number. To stop scrolling, press . The display returns to the **Select Sts** screen.

NOTE *From the status sub-menu it is also possible to type a valid 5 digit status number in the user status range.*

4. Press **PTT** to send the status message.

   If your Service Provider has enabled the Targeted Status feature, pressing gives you an option of sending your status as a private call or as a group call.

   To enter the address for a private call, either key in the recipients number or scroll through the list of numbers, or press to search the address book. For a group call, select the talkgroup within the attached range, then press **PTT** to send the status message.

   The display will show one of the following delivery reports:

   Status Sent — the screen exits the status mode.

   Sts Failed — the screen returns within a few seconds to the previous display.

NOTE *Wait for the delivery report before sending a new status. If you enter the status menu from a busy talkgroup, the audio is momentarily suspended to allow transmission of your status message.*

NOTE *If an emergency group call is received the terminal will immediately join that new emergency call.*

NOTE *If set up by your Service Provider it is not possible to send a status message to a private number that is not in the Address Book.*

Using the Inbox (1 2)

The Inbox list contains new or old incoming text messages. The Inbox list can contain up to 20 messages at any time.

To enter the Inbox, press or **– 1 Messages – 2 Inbox**.

The status of the list is displayed for a few seconds:

- New message(s) arrived, and the list is full. Press to confirm.
- New message(s) arrived — press any key or wait for a few seconds. The display shows the incoming message.
- No New or Old Messages — the screen returns to the previous display within a few seconds.

New Messages

The display shows the incoming message: its number, state (New), sender, and the first line of the text message.

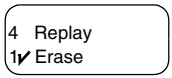
Press one of the following keys:

- The navigation keys to scroll quickly through text messages.
- Press to read the entire message. Reading an existing text message changes its state from New to Old.
- The navigation keys to scroll through the content of a message that is longer than one display line (An arrow at the end indicates that the message continues).

After reading the message, press and:

- Scroll to **Erase** and press to erase the message. The display shows the next message (if any) or the Messages sub-menu.

- Scroll to **Store** and press ✓ to store the message as a template in the Template List.



- Scroll to **Forward** and press ✓ to invoke the Edit Mode. The old message body serves as the default message. Press **PTT** or ✓ to initiate a call. Enter the recipient's number and press **PTT** to send.
- Scroll to **Reply** and press ✓ to invoke the Edit Mode. The old message body serves as the default message and the message originator is the destination default. Press **PTT** to initiate a call to the message originator.

Press ✗ to return to the previous display.

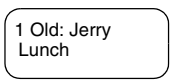
The read message is kept in the Inbox.

A new text message will be displayed immediately. If this message is unread, further new messages can be viewed by re-entering the Inbox

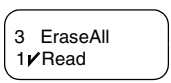
Handling Old Messages

Scroll to one of the old text messages.

Press ✓ and scroll to your selection:



1. Scroll to **Read** and press ✓, to display the selected old message.



After reading the message, you can press ✓ and then:

- Scroll to **Store** and press ✓ to store the message as a template in the Template List.

- Scroll to **Erase** and press ✓ to erase the message. When the display shows **Message Erased**, the current message is deleted from the Inbox. The display shows the next message (if any) or the Messages sub-menu.
- Scroll to **Forward** and press ✓ to invoke the Edit Mode. The old message body serves as the default message and the message originator is the destination default.

Press **PTT** to initiate a call.

- Scroll to **Reply** and press ✓ to invoke the Edit Mode. The old message body serves as the default message and the message originator is the destination default. Press **PTT** to initiate a call to the message originator.

2. Scroll to **Erase** and press ✓ to erase the message.

3. Scroll to **EraseAll** and press ✓, the following message appears:

- Select ✓ to erase all messages in the Inbox.
- Select ✗ to return to previous display.

Receiving Text Messages

When a new message arrives, the ✉ icon blinks on your display. The icon stops blinking when you enter the Inbox.

The **New Mail Arrived** message is displayed for a few seconds.

If your Service Provider configured your MTM800 to “Manual Mode Switch” and a new message arrives, the MTM800 stays in the mode it was in before the message arrived. Press **1 2** to enter the Inbox.

If your Service Provider configured your MTM800 to “Auto Mode Switch”, your MTM800 will enter the Inbox automatically and the ✉ icon will not blink.

NOTE *For message alert, see settings in the Tones menu option (page 83).*

NOTE *If your service provider has enabled the PTT Callback feature, then pressing PTT a list containing the message originator (alias or number) and **ALL** the numbers found in the text message is displayed. Then it is possible to initiate a call to the selected one. Otherwise, PTT will be directed to the currently selected talkgroup.*

NOTE *If configured by your Service Provider it is not possible to call back to a number that is not in the Address Book.*

Sending a Text Message (1 3)

This feature allows you to send new messages, send messages based on user defined templates or send messages based on predefined templates.

The predefined templates are programmed into your MTM800 by your Service Provider. The user defined templates are Inbox messages or, new Outbox messages that you choose to store in your MTM800 memory. User defined messages may also be programmed into your MTM800.

You are allowed to edit your messages before sending them.

You can send a message when the terminal is idle or during a Group/Emergency/Broadcast Call (if configured).

If configured, a message will alert you of an incoming Group/ Emergency/Broadcast call, of your joining it, or of its end.

NOTE *In DMO text messages are sent on frequency attached to the current talkgroup. Make sure you selected desired talkgroup before sending a message. For selecting group details see "Selecting a Talkgroup" on page 28.*

Receiving a Group/Emergency/Broadcast Call before or during text message editing

You can be in a call and start message editing while listening to the call.

Or you can start message editing, receive a call and listen to the call while editing the message.

To join a call received during message editing, press **PTT**.

Sending a text message during a Group Call (if configured)

Press **PTT**. One of the following might occur:

- The call started before message editing began. The terminal will leave the call and send the message. If the call is still active, the terminal will re-join it.

- The call started after message editing began. The terminal will leave the call and send the message. The terminal will return to edit mode.
- The call started before or after message editing began. The terminal will send the message while staying in the call.

Sending a text message during Emergency/Broadcast Call (if configured)

Press **PTT**. One of the following might occur:

- The call started before message editing began. The terminal will leave the call and send the message. The terminal will return to edit mode.
- The call started after message editing began. The terminal will send the message while staying in the call.

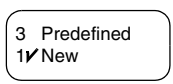
Receiving a Private/Phone/PABX Call during text message editing

Message editing is automatically interrupted and restored after that call.

Entering the Outbox

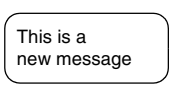
Press **– 1 Messages 3 Send Msg**.

The “Send Msg” sub-menu is displayed.

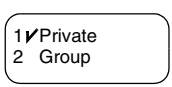


Editing, Storing, and Sending a New Message

1. Scroll to **1 New** and press . An empty screen will open. You are allowed to type or edit your message using the keypad. Refer to “Editing the Text” on page 15.
2. Press and scroll to your selection:
   - Scroll to **Send** and press .



   - If set up by your Service Provider you have the option to send the message to a private number or a talkgroup.



- Select the mail recipient of your choice by scrolling through the address list (see page 71) or enter the address directly.

Press **PTT** to send the message. The display will show one of the following delivery reports:

Message Delivered — to indicate that the message was successfully sent and received.

Message Failed — the message was not received.

- Scroll to **Store** and press ✓ to add your message to the Template List (the number assigned to the message is the lowest free number – in this case template number 3).

Stored in Template 3

NOTE *If provisioned by your Service Provider, it may be possible to compose and send text messages from a busy talkgroup. The group audio will be suspended when a new message or template is being edited. During this time it is possible to receive a new emergency call and message editing will be aborted. If a new private/telephone call is received the message will be restored after that call completes.*

Sending, Editing, and Erasing a User Defined Template

The user defined mail templates are received, new, sent, or programmed messages that are stored in the Templates List and may be re-stored for sending.

1. Scroll to **2 Templates** and press ✓. The first template in the Template List is displayed.

NOTE *It is possible that the templates numbers are not consecutive.*

2. Scroll through the Templates List using the navigation keys and choose the required template.
3. Press ✓ and scroll to your selection:
   - Scroll to **Send** and press ✓ Select the mail recipient of your choice by scrolling through the address list (see page 71) or enter the address directly.

- Press **PTT** to send the message. The display will show one of the following delivery reports:

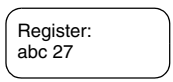
  Message Delivered — to indicate that the message was successfully sent and received.

  Message Failed — the message was not received.
- Scroll to **Edit** and press ✓ to edit the message in the template for your needs. Refer to “Editing the Text” on page 15.
- Scroll to **Erase** and press ✓ to erase the current template.

Sending and Editing a Predefined Template

Predefined mail templates are templates that are programmed into your MTM800 by your Service Provider. You are allowed to perform limited edit operations of the predefined template and to send it, but you will not be able to store the edited template or erase it from the Templates List.

1. Scroll to **3 Predefined** and press ✓. The first template in the Predefined Template List is displayed (if no predefined template exist, the message **No Predefined** will be displayed).



2. Scroll through the Templates List using the navigation keys and choose the required template (in the example, a registration message is displayed).

NOTE *A predefined message can only be sent from the Edit screen.*

3. Press ✓. The message is now in the predefined message editor.
4. Enter your message.
   - To move the cursor forward – press ▶.
   - To move the cursor backward – press ◀.

- Press ⟵ to overwrite the character to the left of the cursor position with a “space” and then, to move the cursor to the left.
- At the present location of the cursor – press the required key to obtain the required character.
- In this editor – long press on the (#) key functions as “Caps Lock”.

NOTE *A predefined message address is also defined by your Service Provider during programming and cannot be changed.*

5. Press **PTT** to send the message. The display will show one of the following delivery reports:

Message Delivered — to indicate that the message was successfully sent and received.

Message Failed — the message was not received.

After sending the message, your MTM800 will return to the predefined template selection screen.

NOTE *You will not be able to send another message while your MTM800 is awaiting message acknowledge.*

What to do if...

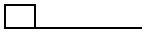
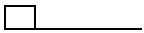
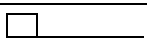
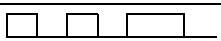
Your MTM800 blinks the following messages:

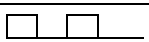
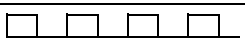
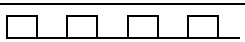
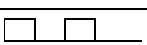
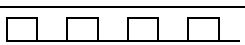
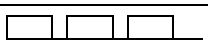
Messages	Message Description
..... Mode List Empty	There are no programmed entries in the scrolling list. Type the entry.
...-Rcvd	Call received but not answered, or rejected.
Attachment Failed	The terminal could not perform talkgroup attachment. Try another talkgroup.
Authenticate Failure	The terminal could not register on an Authenticated system (for example, the Authentication key is incorrect, or Authentication is disabled in the terminal).
Call Cancelled	Faulty channel. Please try later.
Call Ended	Faulty channel. Please try later. Called terminal ended the call.
Call Preempted	Channel being used for priority.
Emgcy Mic Ended	The Hot Microphone timer has automatically expired, or the user has pressed the PTT button to cancel the Hot Microphone feature.
Emgcy Mic On	The Hot Microphone feature is active, and the terminal is automatically transmitting hands free emergency audio.
Empty Entry	The speed number you dialled does not exist, or the number exists but the group is non-selectable.
Faulty Unit Error...	Self-test failed. An operational fault has been detected with your terminal. Record the error number. Turn your terminal off and contact service.
Group already exists	The group you are attempting to add already exists in the My Groups range.
Group Mode No Group	Check group selected, and not “No Group” selected. If correct group selected, attachment failed. Terminal detached from current talkgroup. Please wait until the terminal attaches again to the current talkgroup.
Invalid ID No Entry	The entered number is not valid.
Limited Service	Emergency Calls, Emergency Alarms and mobility operations (e.g.: group attachment) are allowed. All other incoming and outgoing call and data services are blocked
List not Attached	All talkgroups in the scan list are not attached.

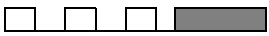
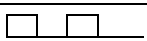
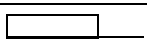
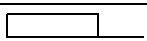
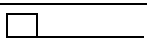
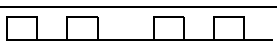
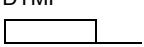
Messages	Message Description
List Partially Attached	The scan list is active, but not all talkgroups are attached to it.
Message Delivered	Mail successfully delivered.
Message Failed	Mail delivery failure.
My Groups is empty	You cannot view/delete groups when the My Groups range is empty.
My Groups is full	You are not allowed to add a group to the My Groups range as it already contains the maximum allowed number of groups.
Network Trouble	Network problems. Please try again later.
No Answer	The called party does not answer.
No Entries	Empty address book list.
No Group	• Displayed when you are out of the normal coverage area of your selected talkgroup. Please select a new talkgroup that is valid for your working location. • Indicates a favourite group was removed from the My Groups range.
No GPS Signal	Please check that the GPS antenna is properly connected and sufficient visibility of satellite is available.
No New or Old Messages	The Inbox is empty.
No Service	The terminal is out of coverage.
Not Allowed To Start Call	You are not allowed to dial a number which is not in the Address Book – if set up by your Service Provider.
Not Allowed To Transmit	• Release PTT and try again later. • You are not allowed to send a text message or a status message to a number which is not in the Address Book – if set up by your Service Provider.
Only One Entry	There is only one programmed entry in the scrolling list.
Overheating	The terminal will automatically turn off. Keep it turned off for five minutes.
Party Busy	The called terminal is busy.
Party Not Available	The called terminal is out-of-range. Please try again later. The called terminal is turned off. Please try again later.
Please Try Again	The MTM800 could not place the call.
Please Wait Connecting	A message during startup, or network reconnection.

Messages	Message Description
Registration Failure	The terminal could not register within the system. Please try again later. Please contact your Service Provider.
Service Denied	Invalid number. Call your Service Provider.
Service Not Available	This service is not available on the current network.
Service Restricted	This service has been restricted by your Service Provider or it has not been purchased.
Single Talkgrp	There is only one programmed entry in the scrolling list.
Talkgroup ... Added	Group name added to the favourite talkgroup range.
Try Again Later	The requested service is temporarily unavailable.
Unit Disabled	Check with Service Provider.
Unit is OK Warn...	Self-test error. A minor fault has been detected with your terminal. The terminal is still fully operative. Should this error recur, note the error code and contact service.
Unit Not Attached	The terminal could not attach to the system. The talkgroup may not be defined in the system. Please try another group.
Wait For Mic	The Hot Microphone feature is active, but the channel transmit grant has been given to another Emergency Call on the same talkgroup. The terminal microphone is not active during this time, but the terminal will automatically try to regain talk permit after a predetermined time.

Tones

= High Tone; = Low Tone		
Description	**Type**	**Repeated**
Idle		
• Back to Home display • Back to Rotary volume use when Rotary scroll timer expires • Back to coverage • Back to full service		Once
Clear to send		Once
Bad key press		Once
• Good key press • MTM800 self-test fails at power up • From out-of-service to in-service		Once
In Call		
• Call clear warning • Call modified		Once
Call waiting tone while Phone or Private Call are pending		Every 6 seconds, until a call is terminated
Data Connected or Data Disconnected.		Once
Talk Permit sounds upon pressing the PTT.	 	Once (Normal Tone) Once (Short Tone)
Talk Permit without gateway sounds upon pressing PTT. The tone indicates the gateway is no longer available.	 	Twice Once

□ = High Tone; ■ = Low Tone		
Description	**Type**	**Repeated**
• Talk Prohibit • System busy • Time-out timer expire • Called MTM800 not available or busy.		Until you release the PTT
Call disconnected or failed due to network		Once
Wrong number dialled.		No tone
DMO Entering		Once
DMO Exiting		Once
Local site trunking — Entering/Exiting		Once
Phone ring back (sending)		Every three seconds, until the called user answers or call is rejected
Phone busy		Every 0.5 seconds
Status message sent to the dispatcher or failed.		Twice
Incoming Calls		
Status message acknowledged by the dispatcher.		Four times
Your MTM800 received a Group Call without gateway. (setup only)		Once
High Priority Group Call received		Once
Emergency Alarm sent or received		Twice
Emergency Alarm failed		Four times
Emergency Call received		Once

□ = High Tone; ■ = Low Tone		
Description	**Type**	**Repeated**
Phone ring (reception) Full-duplex Private Call	According to the Ring Style sub-menu setting.	Until you answer or the call is rejected
Private Call received	According to the Ring Style sub-menu setting.	Until you answer or the call is rejected
Private Call ringing to the caller		Until the call is answered
Half-duplex Private Pre-emptive Priority Call (PPC) ring.		Every 4 seconds until the call is answered or rejected
Full-duplex Private PPC ring.		Every 4 seconds until the call is answered or rejected
Limited Service		Once upon entering limited service
New Mail Received		Once
New Group Call		Once
General		
Volume setting (earpiece, keypad, speaker)		Continuous
Volume setting (Ringer)		While setting the volume
Transmit Inhibit (TXI)		Once
Rotary knob tone		Once, when toggling from List to Volume
Low battery alert		Repeated
DTMF (0-9, #, *) during the call	DTMF 	Continuous, until the user releases the key

□ = High Tone; ■ = Low Tone		
Description	**Type**	**Repeated**
GPS		
GPS in coverage		Once
GPS out of coverage		Once

NOTE *For the missed calls and unread messages, your Service Provider can set up periodic tone.*

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MOTOROLA

MTM800
Motorcycle Radio
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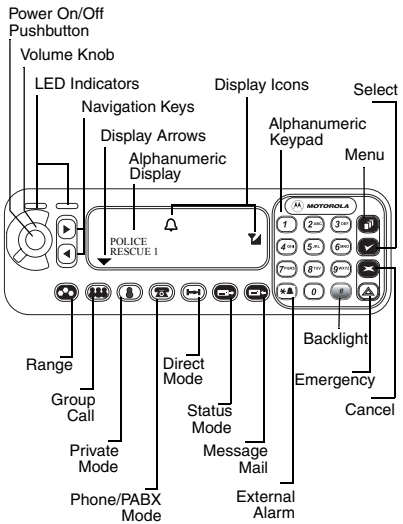


Making a Phone/PABX Call

Press → *Select* **Phone** *or* **PABX** → *Dial No. or select from address book* → *Press* **PTT** *to place call* → *Ringing sounds* → *Called user answers* → *Talk and listen* → *Press to terminate call*

Making a TMO Private Call

Press → *Dial No. or select from address book* → *Press and release* **PTT** → *Ringing sounds* → *Called user answers* → *Press and hold* **PTT** → *A tone sounds (if configured)* → *Talk* → *Release* **PTT** *to listen* → *Press to terminate call*

Making a TMO Private Full-duplex Call

Press → *Dial No. or select from address book* → *Press* → *Select* **Send** → *Press* → *Ringing sounds* → *Called user answers* → *Talk and listen* → *Press to terminate call*

Making a DMO Private Call

Press → *Dial No. or select from address book* → *Press to enter Direct Mode* → *Press and hold* **PTT** → *A tone sounds (if configured)* → *Talk* → *Release* **PTT** *to listen* → *Called user answers* → *Press to terminate call*

Making a TMO or DMO Group Call

Press to enter Group Mode → *Select Range/Talkgroup*

or: Press to enter Direct Mode

Press and hold **PTT** → *A tone sounds (if configured)* → *Talk* → *Release* **PTT** *to listen*

Making an Emergency Group Call (in TMO Mode)

Press and hold .Emergency Alarm is sent automatically.

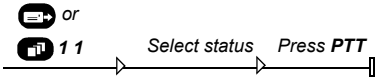
While in Emergency Mode, press and hold **PTT** to talk. If using Hot Mic feature, wait for the **Emergency Mic On** message to be displayed, and talk without pressing **PTT**.

To exit Emergency Mode press and hold

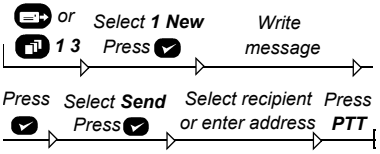
Answering a Call

Your MTM800 switches to the mode of the incoming call and starts ringing. To answer the call, press **PTT**.

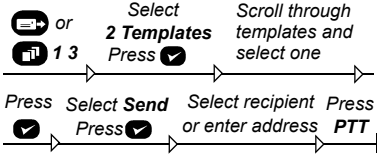
Sending a Status Message



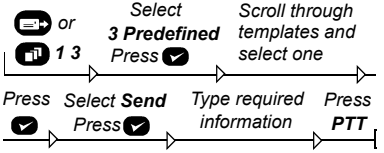
Sending a New Message



Sending a User defined Message

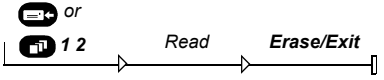


Sending a Predefined Message

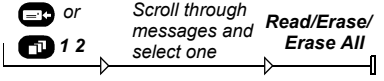


Handling New Incoming Text Messages

The icon will blink on your display and the MTM800 sounds a tone. For details see the Menu Messages section in the User Guide.



Handling Old Messages



Last Number Redial

Press **PTT** to call the last called number.

Using the Menu

- Entering the menu: Press .
- Scrolling through the menu: Press or .
- Selecting a menu option: Press .
- Exiting the menu: Press .

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