



MTM800
TETRA 車載台對講機
功能使用手冊



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MOTOROLA 和 M 造型標誌均已向美國專利商標局註冊。所有其他產品或服務的名字均為各自所有者的資產。

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一般資訊

安全資訊

	<div style="border: 1px solid black; padding: 2px; display: inline-block;">小心</div>	<p>在使用這些產品之前，請先閱讀本對講機隨附的產品安全與 RF 能量暴露手冊（摩托羅拉出版品編號 6866537D37（適用於歐洲、中東和非洲）或 6804112J96/6804113J25（適用於亞太地區））中的操作說明以策安全。</p>
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這些配件僅供職業用途，以符合 ICNIRP RF 能量暴露限制。在使用這些產品之前，請先閱讀對講機的產品安全與 RF 能量暴露手冊中所包含的 RF 能量注意事項以及操作指示，以確保遵循 RF 能量暴露限制。

請將本使用手冊及產品安全與 RF 能量暴露手冊妥善保存，若將配件交由他人使用，應一併提供這些手冊。

廢棄處置資訊



歐盟的電器及電子產品廢棄物處理指令 (WEEE) 規定銷入歐盟國家的產品（或某些情況下，在外包裝上）必須加上垃圾桶打叉的標籤。依照 WEEE 指令的定義，這個垃圾桶打叉的標籤表示歐盟國家的客戶及使用者不應將電器及電子設備或配件當成家庭廢棄物處理。

歐盟國家的客戶及使用者應與當地設備供應商代理或維修中心聯絡，以取得有關當地廢棄物回收系統的相關資訊。

版權資訊

本手冊中所述的摩托羅拉產品可能包含具摩托羅拉版權的電腦程式，儲存於半導體記憶體或其他媒體中。美國和其他國家的法律承認並保護摩托羅拉對擁有版權的電腦程式享有專有權，包括但不限於以任何形式複製或重製具有版權的電腦程式。因此，在沒有獲得摩托羅拉公司明確的書面許可條件下，不得以任何方式對使用手冊描述的摩托羅拉產品中包含的任何具有摩托羅拉版權的電腦程式進行複製、重製、還原工程或散佈。此外，購買摩托羅拉的產品並不能視為是直接或者暗示，獲得摩托羅拉的版權許可、專利或者專利申請，惟在產品銷售中依法規定為一般非專屬版權的授權除外。

特定產品資訊

- 最大 RF 功率 3 瓦特
- 最大揚聲器負載 4 歐姆下 10 瓦特
- 天線阻抗 50 歐姆
- 周圍溫度範圍 -30 °C 到 +60 °C



警告

如果本對講機在使用中，其表面溫度最高可達 70 °C。

請勿觸碰高溫表面

- 操作時間 持續 / 間歇

注意

一般而言，對講機的傳輸和接收時間（操作循環時間）由通訊系統決定。本對講機具有溫度控制保護機制，在超載（超出系統規定於高溫下長時間使用）時溫度控制保護會切斷 RF 輸出功率，因而使對講機的涵蓋範圍變小。

圖示慣例

本文件旨在提供讀者更易懂的視覺提示。說明文件中使用以下圖示。以下說明這些圖示的相關意義。



警告

「警告」標語加上安全圖示表示若未遵照該資訊指示，可能會導致死亡或嚴重人員傷害，或對產品造成嚴重損害。



小心

「小心」標語加上安全圖示表示若未遵照該資訊指示，可能會導致輕度或中度人員傷害，或對產品造成嚴重損害。

小心

「小心」標語可能會單獨使用（未加上安全圖示），表示會有與產品無關的受損或傷害風險。

注意

「注意」則包含比其前段文字更重要的資訊，例如例外或事先具備的條件。此外，也會告知讀者其他相關資訊的位置，提醒讀者如何完成動作（例如，當該動作不是目前程序的一部分時），或告知讀者某項資訊在畫面上的位置。「注意」並無相關的警告等級。

開始之前

恭喜您購買摩托羅拉 MTM800。增強的 TETRA 功能以及最新技術可協助您與所有工作和個人連絡人隨時保持連絡。

您可以使用英文、簡體中文、繁體中文或您服務供應商定義的語言來操作 MTM800。出廠預設設定為英文。如需更多資訊，請參閱第 76 頁的「設定螢幕的使用語言」。

如何使用本手冊

本手冊說明 MTM800 的出廠設定與預設功能。

您的服務供應商或機構可能已針對您個人的需求自訂 MTM800 對講機，以最佳化對講機的使用。請洽詢您的服務供應商或機構，以瞭解其自訂與本手冊說明之間的差別。本手冊使用下列特殊標記來凸顯某些資訊或項目：

範例	說明
Mode 或者是	使用按鍵符號或粗體快捷鍵功能來表示按鍵動作。
Menu 2 2 1	把文數字鍵設為進入所需子功能表的捷徑。在本例中，請依序（而非同時）按下 Menu 2 abc 2 abc 1 ! 。
2 電話簿	反白文字表示您的選擇。
狀態已傳送	MTM800 螢幕中顯示的資訊會以特殊字體表示。
注意	「注意」中包含與該項目功能相關的其他資訊。
6 <用戶定義>	指示您服務供應商設定的提示訊息。

控制項與指示燈

1. 開/關按鈕

2. LED 指示燈
紅色、橘色、綠色

3. 顯示圖示

4. 文數字顯示

5. 文數字鍵盤



6. 背光鍵

7. 功能鍵

8. 外部警報鍵

9. 功能表鍵

10. 傳送/結束鍵

11. 快捷鍵

12. 導覽鍵
上、下、左、右

13. 模式鍵

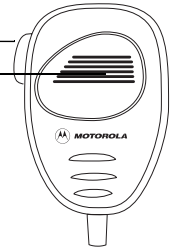
14. 緊急鍵

15. 麥克風接頭

16. 音量旋鈕

17. PTT

18. 麥克風



項目	說明
1	開/關按鈕 將 MTM800 開機或關機。(請參閱第 10 頁。)
2	LED 指示燈 指出服務狀態。(請參閱第 9 頁。)
3	顯示圖示 顯示其他資訊和 MTM800 狀態。(請參閱第 7 頁。)
4	文數字顯示 背光檢視最多 4 行字或數字 (每行最多 16 個字元或數字)。
5	文數字鍵盤 輸入數字和字母字元。(請參閱第 14 頁)。這些按鍵的功能由服務供應商設定。(請參閱第 16 頁。)
6	背光鍵 降低和提高對講機的背光亮度 (4 種亮度選擇)。(請參閱第 24 頁。)
7	功能鍵 這些按鍵的功能由服務供應商設定。(請參閱第 16 頁。)
8	外部警報鍵 用來啓用或停用外部警報功能 (聲音和指示燈)。(請參閱第 24 頁。)
9	功能表鍵 按下此鍵即可顯示功能表選項。使用導覽鍵來捲動。(請參閱第 13 頁。)
10	傳送/結束鍵 按下此鍵即可撥打全雙工通話、傳送文字和狀態訊息，以及結束電話通話、PABX 通話、全雙工以及半雙工私人通話。
11	快捷鍵 按下此鍵即可選擇出現在螢幕上第 4 行中位於向左或向右鍵上方的選項。(請參閱第 13 頁。)
12	導覽鍵 按下此鍵即可在選項和清單 (例如訊息或電話簿清單) 中向上或向下移動。

項目	說明
13	模式鍵 選擇電話、PABX、私人或群組模式。(請參閱第 12 頁。)
14	緊急鍵 啓動緊急模式並傳送緊急通報。(請參閱第 13 頁。)
15	麥克風接頭 配備 PTT 的掌上型或桌上型麥克風或電話手機接頭。
16	音量旋鈕 調整音量。(請參閱第 24 頁。)
17	通話按鈕 (PTT) 按下此按鈕即可： <ul style="list-style-type: none"> • 傳送群組呼叫、私人通話或緊急呼叫。 • 傳送狀態訊息。
18	麥克風 在通訊期間對麥克風說話。

螢幕顯示

顯示圖示清單

當啓動 MTM800 後，螢幕上會出現圖示以指出以下情況：

圖示	說明
	訊號強度 (TMO) 在撥打之前可讓您檢查訊號強度。5 列表示訊號最強。在訊號微弱的地區可能無法發送或接收通話或訊息。天線圖示閃爍表示已超出涵蓋範圍。移到收訊較佳的地區然後再重試撥號。在直通模式群組呼叫期間不會出現此圖示。
	訊號強度 (DMO) 指出接收到直通模式群組呼叫。
	直通模式 當對講機在直通模式時，就會顯示此圖示。

圖示	說明
	<p>DMO 閘道 表示您選擇使用閘道撥號。此圖示分為 3 種狀態： 持續顯示 — 當對講機與閘道同步（即，當對講機接收到出現訊號）。 閃爍顯示 — 當對講機未與閘道同步或正在附接。 無圖示 — 在對講機之間以及對講機對中繼器呼叫期間。</p>
	<p>DMO 中繼器 當在 DMO 選取中繼器選項時，就會顯示此狀態圖示。此圖示分為 3 種狀態： 持續顯示 — 當對講機已偵測到中繼器（即，當對講機接收到出現訊號）。 閃爍顯示 — 當對講機未偵測到中繼器或正在附接。 無圖示 — 在對講機之間以及對講機對閘道呼叫期間。</p>
	<p>未讀取的訊息 指出收件箱中有未讀取的訊息。</p>
	<p>收到新訊息 如果對講機目前有進行中的活動，將不會自動開啓您的收件箱。此圖示會持續顯示以提示您收件箱中有新訊息。</p>
	<p>外部警報 當啓動外部警報（聲音和指示燈）時顯示。</p>
	<p>私人通話來電 當有私人通話來電時會閃爍顯示。如果您接受或拒絕來電或撥號失敗，此圖示將會消失。</p>
	<p>來電 當接收到來電時會閃爍。</p>
	<p>緊急呼叫 當 MTM800 在緊急模式時，就會顯示此圖示。當有緊急群組呼叫來電時，此圖示會閃爍。</p>
	<p>優先掃描（包含優先監視點） 指出掃描已啓動。</p>
	<p>數據已連接 當 MTM800 已成功連接至外部裝置（筆記型電腦或桌上型電腦），準備好傳輸資料時，就會顯示此狀態圖示。</p>
	<p>接收/傳輸資料 此圖示指出目前正在進行資料傳輸。</p>


指出揚聲器啟動/關閉

注意

揚聲器啟動/關閉指示僅適用於群組模式。

當設定使用電話聽筒配件時，會通話群組行會反白顯示（請參閱第 81 頁）。


- 如果通話群組行反白顯示，所有來電都會透過聽筒接聽。



範圍 1
群組 1
狀態 選項

- 如果通話群組未反白顯示，任何來電的聲音都會透過外部揚聲器傳出。

您可透過揚聲器啟動/關閉可編程按鈕來選擇使用聽筒或揚聲器接聽。




範圍 1
群組 1
狀態 選項

顯示長號碼



數字後的 3 個點表示下頁中有接續的內容（例如，在電話簿）。

如果您撥打長號碼，每輸入一個新數字都會使顯示的號碼向左移動一位數。



David
0356587...
返回 選項

顯示長篇文字訊息

文字訊息後顯示的箭頭表示下頁中有接續的內容（例如，在閱讀郵件訊息時）。按下  即可讀取下一頁，然後再次按下  即可返回上一頁。

LED 狀態指示燈

LED 指示燈可用來顯示 MTM800 的各種狀態。

指示燈	狀態
持續綠燈	使用中
閃爍綠燈	在服務範圍
持續紅燈	不在服務範圍
閃爍紅燈	連接至網路/進入 DMO

指示燈	狀態
持續橘燈	在服務範圍中傳輸抑制 (TXI)/ 在 DMO 中頻道忙線
先持續亮起然後閃爍橘色	來電
無指示燈	關機

開機/關機

若要開機：

- 按下**開/關**按鈕。
- 如果已將 **MTM800** 設為點火感應，當車輛的點火裝置作動時，對講機將會自動開機。
- 如果將緊急腳開關連接至配件接頭，且您的服務供應商已啓用了緊急開機功能，則每當按下緊急開關時，**MTM800** 將會以緊急模式開機（請參閱第 55 頁的「緊急情況模式」）。

螢幕上將會出現一組圖示和方塊。（請參閱第 7 頁的「顯示圖示清單」。）然後您的 **MTM800** 將會執行自我檢查和系統註冊例行常式。當 **MTM800** 向系統註冊時，螢幕會顯示其他訊息。

在成功註冊後，**MTM800** 就可開始使用。

若要關機：

- 再次按下**開/關**按鈕。
- 如果透過點火裝置啓動而將對講機開機，則可透過點火裝置或按住**開/關**按鈕將對講機關機。

您將會看到「**關機**」訊息。

注意

如果已啓動隱密模式，則當對講機開機和關機時都不會顯示訊息或發出提示音。（請參閱第 23 頁的「隱密模式」。）

解除安裝對講機



小心

選項 1：

在中斷連接 13.2V 主電源與對講機之前：

- 1) 關閉對講機。
- 2) 在放開對講機的關機開關後，至少等待 4 秒。

中斷連接 13.2V 主電源。

選項 2：

關閉主電源但不將對講機關機。

解除鎖定 MTM800

您可在開機後將 MTM800 鎖定。若要解除鎖定，請參閱第 72 頁的「如何將 MTM800 解除封鎖」。

選擇您的網路

在開始操作 MTM800 之前，您可以選擇 MTM800 要註冊的網路。若需詳細資訊，請參閱第 82 頁的「網路」。

啓動傳輸抑制時開機

如果在傳輸抑制啓動下對講機已關機（請參閱第 83 頁的「設定傳輸抑制 (TXI) 模式」），則 TXI 模式仍會維持啓動狀態。

當在 TXI 模式啓動下將對講機開機，會詢問用戶是否要離開 TXI 模式。

退出 TXI？

是

否

如果您要停用 TXI 模式 – 例如，如果您離開建議使用 TXI 模式的無線電射頻 (RF) 敏感地區，請按下**是**快捷鍵（請參閱第 13 頁的「快捷鍵」）。如果 MTM800 之前處在集群模式 (TMO)，則會向網路註冊。

如果按下**是**，且對講機之前在 TXI 和直通模式中，則對講機會退出 TXI 模式但仍留在直通模式中。

如果對講機之前已在 TXI 啓動下進入集群模式，按下**否**會將對講機關機。

如果按下**否**，且對講機之前在 TXI 和直通模式中，則對講機會留在 TXI 模式和直通模式中。

按鍵概觀

模式鍵

MTM800 在集群模式操作 (TMO) 下會提供 4 種主要通話模式：

- 群組模式 — 傳送和接收群組呼叫。
- 私人模式 — 傳送和接收私人通話。
- 電話模式 — 傳送和接收電話通話。
- PABX 模式 — 傳送和接收本端（辦公室）分機通話。

注意 只在當您的服務供應商已啓用此功能時，才會顯示 PABX 模式。

如果您的服務供應商已設定此功能，則當 MTM800 在另一個模式或在功能表中於數秒內無活動時，就會回到群組模式。

群組模式適用於

- 在**集群模式操作 (TMO)** 中，透過系統涵蓋範圍內的基礎設施服務來使用 MTM800，或
- 在**直通模式操作 (DMO)** 中，不需透過基礎設施服務即可使用 MTM800。

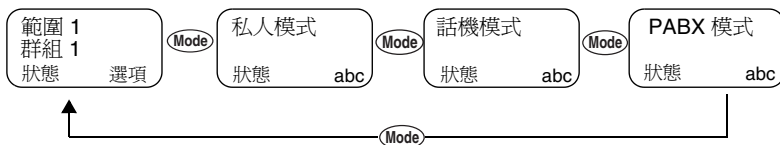
注意 在 DMO 模式中操作時，可直接透過對講機天線與接收方對講機天線進行通訊，不需透過基地台或無線電塔。因此，其涵蓋範圍主要取決於車輛的位置。兩用戶之間的任何阻礙（山丘、大樓等）都會讓 TETRA 對講機的使用範圍縮小。您可將車輛駛至另一個地點或較高的地點，以提高涵蓋範圍。

對講機在 DMO 中可透過閘道裝置與集群系統通訊（反之亦然）。若要使用該功能，請在對講機中啓用閘道選項（請參閱第 38 頁的「閘道/中繼器選擇」）。

注意 在 DMO 模式中只能撥打群組和緊急群組呼叫。

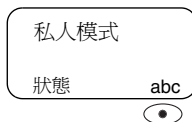
反覆按下 **Mode**，即可循環選擇群組、私人、電話和 PABX 模式。當 MTM800 在使用中，螢幕看起來會和下列電話、群組、私人 and PABX 模式的預設開始畫面類似。

模式開始畫面範例：



快捷鍵

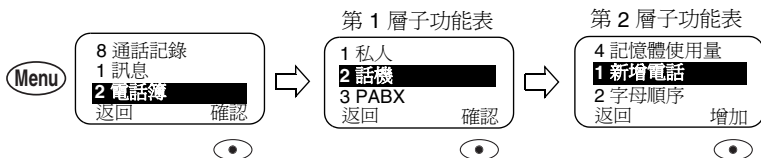
按下 即可選擇出現在螢幕上向左或向右鍵上方的選項。在本例中，會在快捷鍵上方顯示 **abc**。按下 即可進入電話簿。在本使用手冊中，此動作稱為「按下 **abc**」。



功能表鍵

按下 即可進入主功能表層級架構（當沒有進行中的活動）。MTM800 功能表可讓您控制 MTM800 設定。功能表會以層級架構排列。請參閱第 66 頁的「功能表選項清單」。功能表選項提供更詳細的選項清單，稱為子功能表。

以下範例說明如何檢查電話簿中的可用記憶體。上個選項會出現在螢幕的第一行，讓您知道有多少可用的選項。



緊急鍵

在任意模式下按下 鍵即可進入緊急模式中。此模式可讓您傳送緊急通報以及撥打緊急群組呼叫。

注意

緊急模式適用於集群模式和直通模式操作。緊急通報僅適用於集群模式操作。緊急通報將會傳送給調度員（如果您的服務供應商已設定此功能）。

注意

按下緊急鍵所需的時間預設為 0.5 秒。可由您的服務供應商設定此時間值。

但是，即使當 MTM800 以 PIN 保護鎖定時，您仍可接收或傳送緊急呼叫。

文數字鍵盤

使用鍵盤進行撥號、將號碼輸入電話簿或建立 SDS（簡短資料服務）訊息，或單鍵撥號。

輸入號碼

若要將號碼輸入電話簿，請按下對應數字鍵。

輸入文字（字母和數字）

若要將別名輸入電話簿或在訊息中輸入文字時，按下標示所需字元的按鍵，按一下會輸入按鍵上的第一個字元、按兩下會輸入第二個字元，以此類推。按鍵上有其他字元（請參閱第 15 頁）。

編輯文字

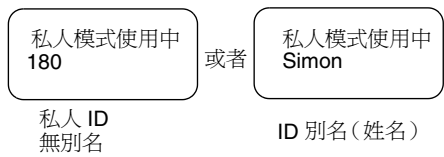
若要 ...	動作
將游標向右移動一個字元	按下  ，按下另一個按鍵或等待一小段時間
將游標從文字結尾移至開頭位置	按住 
將游標向左移動一個字元	按下 
將游標左側的第一個字元刪除	按下清除
刪除整段文字	按住清除
結束編輯	按下清除

別名（名稱）

別名是您可指派至已儲存的電話和私人號碼（或 ID）的選用名稱。

別名中可包含最多 14 個字元，可由字母、數字或空格組成。在記憶體清單中捲動時會顯示別名。別名也可用於從記憶體清單中擷取號碼。

以下範例畫面說明來電者私人號碼的顯示方式。



可用字元




按下適當按鍵即可顯示下表中列出的字元。

各鍵最上行會顯示大寫字元，而下行則會顯示小寫字元。

按住 即可切換大小寫。

可用字元清單：

按鍵	文數字
	.,?!01@' "- () / : _ ; + & % * * = < > € £ \$ ¥ ¢ [] { } ~ ^ ` ~ i \$ #
	A B C 2 Ä Å Æ Ç a b c 2 ä å æ ç
	D E F 3 È É Ê Ë d e f 3 è é ë ê
	G H I 4 Î Ï Ì g h i 4 î ï ì
	J K L 5 j k l 5
	M N O 6 Ö Õ Ò Ñ m n o 6 ö õ ò ñ
	P Q R S 7 p q r s 7
	T U V 8 Ü Ù Ú Ú t u v 8 ü ù ú ú
	W X Y Z 9 w x y z 9

按鍵	文數字
	空格 * / %
	0 + -
	# = < >

可編程按鍵

MTM800 支援單鍵功能，可透過按住數字鍵或三個功能鍵（F1 到 F3）中的一個鍵來選擇/啟動常用的功能。您的服務供應商應會對數字和選項鍵設定相關功能。鍵盤上的所有數字鍵均是可編程的。下表列出可程式設定的功能以及在特定 MTM800 狀態/模式下的可用情況。有關這些功能的詳細資訊，請參閱本使用手冊的相關章節：

功能	說明
通話群組開關	切換至特定通話群組
目前/上一個切換通話群組	切換至上一個通話群組（即使操作模式不同）
通話群組掃描	啓用/停用通話群組掃描功能（僅限 TMO）
回到首頁	使 MTM800 回到群組模式
DMO/TMO	在 DMO 和 TMO 模式之間切換
狀態訊息	傳送指定狀態訊息至指定位址（僅限 TMO）
啓動/關閉揚聲器	將聲音透過電話聽筒或揚聲器傳出
文字訊息範本	傳送預先定義/用戶定義範本至指定位址（僅限 TMO）
通話撥號（私人、電話、PABX）	撥號給電話簿中預先定義的連絡人（僅限 TMO）
傳輸抑制 (TXI)	在啓動和停用 TXI 模式之間切換
隱密模式	啓動/關閉隱密模式
時間與日期	顯示時間和日期

注意 如果單鍵功能已啟用，則會停用單鍵撥號功能（請參閱第 52 頁）。

若要使用單鍵功能：

- 從任意模式中，按住所需數字鍵約數秒。
- MTM800 將會根據設定的功能顯示號碼或功能和動作。

單鍵私人通話功能由服務供應商設定。

1. 如果它已設為**單工**，則撥出的私人通話也會是單工。
2. 如果它已設為**雙工**，則在 **中**撥出的私人通話也會是雙工，而在 **DMO** 中撥打上一個群組呼叫起始方的號碼則會是單工。
3. 如果它已設為**雙工**，則在 **中**撥出的私人通話也會是雙工，而在 **DMO** 中若需要使用電話簿索引則無法撥出。

首頁模式畫面

您的 MTM800 提供一項讓服務供應商可傳送特殊文字訊息至您 MTM800 螢幕的功能。

在按下任意鍵後會顯示此訊息數秒。

如果您的服務供應商已設定此功能，MTM800 將會顯示內建首頁模式畫面，直到接收到新訊息。

範圍 1
<HomeModeDispTxt>

注意 此功能可當成對用戶的特殊提醒訊息。通常包括呼號，或工作調度員參考編號，或火車班次或公車路線編號。新訊息可透過無線方式更新。

時間與日期

如果您的服務供應商已設定此功能，您就可以按下相關單鍵按鈕來檢查時間和日期。

檢查功能表選項以確定服務供應商是否提供您自行設定時間和日期的功能。

對講機停用/啓用

MTM800 提供一項當對講機遭竊或遺失時可讓服務供應商透過無線方式暫時停用對講機的功能。

當 MTM800 停用時，將無法發話或接聽來電。

當 MTM800 停用時，將會顯示以下空白畫面。



MTM800 看起來有如已關機。

當對講機停用時，如果您嘗試將 MTM800 開機，其反應就會如上所述。

在找回您的 MTM800 後，服務供應商就可重新啓用它。

在 MTM800 重新啓用後，您就可回復正常操作。

對講機永久停用



MTM800 提供一項當對講機遭竊或遺失時可讓服務供應商永久停用對講機的功能。當 MTM800 被永久停用時，將無法操作。

在永久停用後，服務供應商就無法重新啓用 MTM800。

建議您只有當您認為無法找回對講機時，才永久停用您的 MTM800。


撥出電話

您可依所在模式中撥打電話：

- 按下  即可撥號，然後按下  即可結束通話。
- 按住 **PTT** 即可說話，而放開 **PTT** 即可收聽。

若要撥出號碼，請進入所需模式（群組、私人、電話或 PABX）然後再依照下頁所述的方式撥號。

有關特定模式中撥打方式的詳細資訊，請參閱本手冊中的相關模式章節。

由於不同用戶可在不同模式中使用同一個號碼（如果已設定），在使用鍵盤輸入號碼時，請確定在正確的模式中撥號。在撥號時按下  會將鍵入的號碼帶入下個模式。

VOX 控制

VOX（語音操作傳輸）功能可讓使用者以免持狀態傳送語音。在進行全雙工私人通話且電話通話使用掌上型麥克風時，對講機會自動偵測到音訊。

注意 只有當您的服務供應商設定此功能後才能使用。
如果此功能已停用，按下 **PTT** 即可開始傳輸。

接聽來電

MTM800 將會自動切換至來電的模式。在來電結束後，螢幕會自動返回收到來電之前的模式。

注意 在私人、電話和 **PABX** 模式中，如果接收到非緊急 **TMO** 或 **DMO** 群組呼叫時，**MTM800** 會留在目前的模式。您可接聽呼叫，但螢幕仍會維持不變。

視您在鈴聲功能表選項（請參閱第 79 頁）中的設定而定，當有來電時 **MTM800** 將會提示您。

在編輯訊息時，將會提示您有群組/緊急群組/廣播群組呼叫（如果您的服務供應商已設定此功能）。

忙線用戶搶佔 (BUP)

注意 只有當您的服務供應商設定此功能後才能使用。

當您在通話中（私人、電話、**PABX**）若主控台操作員或系統調度員想要呼叫您時，就會啟動 **BUP** 功能來中斷並搶佔您的通話。

注意 **BUP** 呼叫也會搶佔進行中的撥號。但是此進行中的撥號必須為私人、電話或 **PABX** 通話。

然後在通話搶佔成功後，主控台操作員也會在預定期間內嘗試與您建立私人通話。

注意 在通話搶佔成功後於預定期間內（在 **BUP** 等候狀態）只允許進行緊急呼叫。

優先通話 (PPC)

當您急需與在非緊急語音通話中的對講機用戶通話時，優先通話就十分有用。

優先通話 (PPC) 可以是緊急群組呼叫或私人 PPC（半雙工或全雙工通話）。

此功能可讓您中斷進行中的低優先性通話，並接聽高優先性的來電。

服務供應商會設定 PPC 的優先順序。緊急呼叫具有最高優先性。若要撥打 PPC，請參閱本使用手冊中的「緊急模式」與「私人模式」章節。

MTM800 將會透過揚聲器或電話聽筒接聽，視使用的 PPC 來電接聽設定而定。

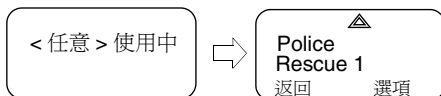
注意 有關通話提示，請參閱鈴聲功能表中選項中的設定（第 79 頁）。

以下就接聽 PPC 提供相關說明。

在下列畫面中，<任意> 使用中是指任一種非緊急語音通話：群組、私人、電話或 PABX。

在通話期間接聽緊急群組呼叫

MTM800 會接聽緊急群組呼叫，中斷進行中的非緊急語音通話，然後連接緊急群組呼叫。



在通話中接聽私人 PPC

如果您的服務供應商已設定此功能，MTM800 會接聽 PPC，中斷進行中的非緊急低優先性語音通話，然後連接高優先性的通話。

優先性較低或相同的 PPC 則會被掛斷而不提示接聽方，並會被列入未接來電清單。

具緊急呼叫優先性的 PPC 通話則會螢幕上顯示為「**緊急呼叫**」（而非「**優先**」）。

接收到半雙工私人 PPC



接收到全雙工私人 PPC



廣播呼叫

廣播呼叫（又稱為站台呼叫）為主控台操作員（或調度員）向位於一或多個站台的所有對講機用戶進行的高優先性群組呼叫。對講機已設定為監聽廣播呼叫，但是使用者無法回覆呼叫。

您可依照正常廣播呼叫或緊急廣播呼叫的方式接聽。

廣播呼叫會搶佔目前進行中具有相同（或較低）呼叫優先性的群組呼叫。

有關在廣播呼叫中選擇通話群組的資訊，請參閱第 27 頁的「選擇通話群組」。有關在廣播呼叫中變更範圍的資訊，請參閱第 30 頁的「在通話中/接聽來電時變更通話群組」。

使用中群組
廣播
狀態

緊急電話使用中
廣播
狀態

環場收聽 (AL)

此功能（如果您的服務供應商已啓用）可讓主控台操作員（或調度員）與特定 **MTM800** 建立特殊呼叫，以監聽當地附近的語音活動。建立此呼叫時並不會對受影響的 **MTM800** 發出提示，而且進行中的低優先性通話或封包資料傳輸可能會被搶佔。

在接受呼叫後，**MTM800** 會進行半雙工私人通話傳輸，不需用戶進行任何操作，也不會對用戶發出提示。當用戶撥打語音通話並正常使用對講機時，環場收聽呼叫應會自動結束。

取消來電

在所有模式下（群組模式除外），在通話中如果您要取消來電，請按下**拒絕**。通話號碼將會轉送至未接來電清單。

使用通話中功能

注意

通話中功能僅適用於當使用電話聽筒接聽時（請參閱第 81 頁的「設定配件」）。

啓動/關閉揚聲器

從掛夾底座拿起電話聽筒將會停用揚聲器並且只能透過聽筒接聽。

1. 若要啓動外部揚聲器，請按下**揚聲器**。
當揚聲器啓動時，**揚聲器**快捷鍵會閃爍。
2. 若要停用外部揚聲器，請按下**揚聲器**。
此時**揚聲器**快捷鍵將會停止閃爍。

David
2822
靜音 揚聲器

使用功能鍵（手持機上的 **F1** 或 **F2** 鍵）可能會連帶啓動/關閉外部揚聲器（如果您的服務供應商已設定此功能）。

將麥克風設為靜音/取消靜音

在電話、PABX 或全雙工私人通話期間，使用靜音功能以：

- 暫停交談而不會被對方聽到您的聲音
- 將您所在地區的背景噪音降至最低

1. 按下**靜音**。當靜音功能啟動時，「靜音」快捷鍵會閃爍。麥克風設為靜音。您會聽到傳入的聲音，但是對方無法聽到您 MTM800 傳送的任何聲音。
2. 若要談話，請再次按下**靜音**。此時，「靜音」快捷鍵將會停止閃爍。麥克風設為啟動。

隱密模式

如果您的服務供應商已設定此功能，隱密模式可讓您完全關閉 MTM800 的所有視覺和音效提示和通知。此功能可讓 MTM800 即使在安靜的黑暗環境中，也不會被注意到。

進入隱密模式：

- 按下隱密模式單鍵按鈕（如果已由您的服務供應商程式設定），或
- 在保密功能表中選擇隱密模式（請參閱第 74 頁）。

單站集群服務

此模式又稱為 **Fallback** 模式，當站台與網路中心控制器之間的連結中斷時，可讓同一站台的多部對講機進行通訊。對講機會自動進入和退出單站集群服務（即是返回系統服務）。

進入單站集群服務

當 MTM800 接收到來自系統的單站集群服務通知時，會發生以下情況：

- MTM800 會發出提示音。
- 螢幕會顯示「單站集群服務」訊息。
- 在進入單站集群服務模式時，所有進行中的通話均會中斷。

如果您的服務供應商已設定此功能，會定時重複此訊息/提示以提醒您對講機仍在單站集群服務模式中。

當 MTM800 在單站集群服務模式時，可使用以下功能：

- 註冊
- 附加
- 群組呼叫


- 緊急群組呼叫
- 緊急通報

退出單站集群服務


當與中央網路控制器重新建立連結時，MTM800 會退出單站集群服務，並會發生以下情況：

- MTM800 會發出提示音。
- 在單站集群服務期間，將會中斷進行中的通話。

調低螢幕亮度

如果背光設為手動（請參閱第 77 頁的「設定背光」），則提供 4 種螢幕背光亮度等級。若要變更背光亮度，請按下 。

注意

您無法在電話或 PABX 模式以及文字編輯中調低亮度，因為在這些模式中背光鍵  會用來輸入 # 號及/或當成 Shift 鍵。

調整音量

若要提高音量，以順時針方向轉動開/關音量旋鈕。

若要降低音量，以逆時針方向轉動開/關音量旋鈕。


啓動/關閉聲音和指示燈提示

當您離開車輛並希望當收到重要訊息（例如私人通話）時獲得通知，則可使用聲音和指示燈提示。


注意

若要使用聲音和指示燈提示功能，您必須在車上安裝 GKN6272 配件。

如果已預先設定外部警報功能，則當有來電時車輛照明會啓動並發出提示聲通知您。

若要啓動或關閉聲音和指示燈，請按下 。

注意

您必須關閉點火裝置才能使用聲音和指示燈提示。
聲音和指示燈功能無法在電話或 PABX 模式以及文字編輯中操作，因為在這些模式中  鍵會用來輸入 * 號。

封包資料

封包資料 (PD) 服務可讓您在 TETRA 系統中使用網際網路通訊協定 (IP) 傳輸資料。請洽詢您的服務供應商以瞭解此功能是否可用。

注意

若要透過無線方式從標準電腦傳輸資料，請使用功能正常的數據纜線 GMKN1022 連接電腦和 MTM800。您的服務供應商必須在您的電腦上安裝額外的應用程式。

如果您的服務供應商已安裝多槽封包資料 (MSPD) 服務，則可以使用此服務來加速傳輸（請參閱第 88 頁的「封包資料」）。

保養您的 MTM800

清潔您的 MTM800 時，請使用沾濕或防靜電的軟布。請勿使用乾布或會釋放靜電的軟布。

TMO 群組呼叫

一般說明

群組呼叫是指您和所選通話群組中其他人之間的通訊。參與者可以加入（逾時加入）並離開進行中的群組呼叫。**通話群組**是指預先定義的一組可參與及/或啟動群組呼叫的用戶，由服務供應商設定。

通話群組在螢幕上會以姓名或號碼顯示（例如：業務、服務、電子技師，通話群組 10）。

通話群組可依**範圍**分組。每個範圍最多可包含 **16** 個通話群組。爲方便使用，**MTM800** 還提供以下功能：

- 執行通話群組別名的文數字搜尋。
- 使用導覽鍵在通話群組清單中捲動。
- 撥打通話群組（由您的服務供應商設定）。
- 將您的最愛通話群組組織至我的群組範圍中（由服務供應商設定）。

通話群組可能會組織至**掃瞄清單**中（由服務供應商或您自行透過功能表進行設定）。當您啟動其中一個掃瞄清單時，**MTM800** 將會繼續監視選取通話群組的活動。

藉由指派優先性至掃瞄清單中定義的通話群組，您就可接聽**優先性**高於目前進行中通話的通話。若需掃瞄的詳細資訊，請參閱第 **84** 頁。

當對講機在待機或接聽來電時，您可啟動通話群組、範圍或掃瞄選擇。

若要在通話中撥打給另一個群組，請執行以下操作以便在目前的通話中說話：

1. 退出選擇畫面。
2. 按下 **PTT** 然後開始說話。

在選擇畫面上按下 **PTT** 即可切換至新的群組並開始撥號。

每個通話群組都會有一個要監視的相關公告**通話群組 (ATG)**（如果服務供應商已設定此功能）。

ATG 為特殊的群組，會連結至多個通話群組並具有最高的優先等級，因此可向所有這些通話群組進行廣播通話。

當選取 ATG 後，就不會顯示掃描圖示。MTM800 會監視 ATG 掃描清單而非選取的掃描清單。ATG 掃描清單包含所有與選取 ATG 相關的通話群組。您的服務供應商應建議哪些通話群組與公告通話群組關聯。

MTM800 將會隨時監視 ATG 掃描清單中的群組呼叫。若要進行公告呼叫，您必須先選擇服務供應商建議的公告通話群組，否則，您將只能在接收到公告通話群組時才能參與。

您無法對 ATG 掃描清單啟用和停用通話群組掃描。

選擇通話群組

您可以使用下列其中一種方式來選擇通話群組：

- 導覽鍵
- 字母搜尋功能
- 數字鍵輸入（如果已設定）
- 最愛群組（如果已設定）

範圍 10
通話群組 1
狀態 選項

有關在通話群組範圍中捲動的設定，請參閱第 31 頁的「選擇範圍」中的注意事項。

使用導覽鍵

您的服務供應商將 MTM800 設為僅顯示可選取的通話群組。使用導覽鍵在所需通話群組中捲動，然後按下**確認**。有關在通話群組範圍中捲動的設定，請參閱以下「選擇範圍」一節中的注意事項。

範圍 10
通話群組 2
取消 確認

使用字母搜尋

1. 在群組模式中，按下**選項**。
2. 選擇 **abc** 以使用字母搜尋通話群組。
3. 您現在已進入通話群組字母搜尋畫面。
輸入文數字，然後 **MTM800** 會開始搜尋
以該字母為首的第一個通話群組別名。
使用導覽鍵在相鄰的別名間進行捲動。
在本範例中已輸入「**a**」。
4. 按下**確認**以選擇所需的通話群組，
或按下 **PTT** 以選擇並對新群組撥號。

範圍 10
通話群組 1
狀態 選項

1 abc
2 範圍
3 掃描中
返回 確認

abc: 群組
返回

A = A team
3500
取消 確認

使用數字鍵

當對講機在群組模式中而且並未進行傳輸（即，待機或正在接聽來電）時，您可使用鍵盤輸入記憶位置號碼，以撥打給任一群組。此功能稱為通話群組記憶位置撥號。此記憶位置號碼已在終端預先設定。

您也可以檢視某個群組的記憶位置號碼（如果有的話）。

檢查附加群組的記憶位置號碼

1. 在群組模式中，按下**選項**。
2. 選擇 **5 檢視記憶位置號碼**來檢視通話群組的記憶位置號碼。
3. 在本範例中，「**1**」是記憶位置號碼。
按下**返回**以回到附加群組畫面。

範圍 10
通話群組 1
狀態 選項

5 檢視記憶位置號碼
1 abc
2 範圍
返回 確認

範圍 10
1* = 通話群組 1
返回

捲動檢視記憶位置號碼 (僅限待機模式)

1. 在群組模式中，按下導覽鍵即可捲動至所需通話群組。
2. 按下 **Menu**。
3. 選擇 **1 檢視記憶位置號碼** 來檢視通話群組的記憶位置號碼。
4. 在本範例中，「2」是記憶位置號碼。
按下**返回**以回到附加群組畫面。

範圍 10
通話群組 1
狀態 選項

範圍 10
通話群組 2
取消 確認

1 檢視記憶位置號碼
返回 確認

範圍 10
2* = 通話群組 2
返回

撥打記憶位置號碼

1. 輸入數字 (例如「2」)。
2. 按下**尋找**或 **(*D)**。
3. 按下**選擇**即可附加新群組，或按下 **PTT** 以附加並通話。

範圍 10
通話群組 1
狀態 選項

範圍 10
2
清除 尋找

範圍 10
2* = 通話群組 2
取消 選擇

最愛群組

此功能可讓您將最愛群組儲存在稱為**我的群組**的特殊範圍中。儲存的群組可以是 **TMO** 或 **DMO**。

若要進行儲存，您可以

- 從群組模式畫面，或
- 從我的群組功能表選項。

從群組模式畫面新增群組

1. 在群組模式畫面中，捲動至所需群組，然後按下**選項**。
2. 選擇 **4 新增至我的群組**。對講機會顯示通話群組別名已新增的訊息，然後返回待機狀態。

範圍 10
通話群組 1
狀態 選項

3 掃描中
4 新增至我的群組
5 檢視記憶位置號碼
返回 確認

通話群組 101
已新增

從我的群組功能表選項新增群組

請參閱第 70 頁的「我的群組」。

從我的群組範圍中選擇群組

請參閱第 70 頁的「我的群組」。

在通話中/接聽來電時變更通話群組

在接聽來電或通話進行期間，您仍可以選擇群組資料夾。

接聽來電時選擇群組

如果您在選擇群組時收到非緊急來電，當您接聽來電時 MTM800 螢幕將會維持不變。

在選擇群組期間，您無法檢視來電方的資訊。

注意

當接收到緊急呼叫時，MTM800 會中止選擇並切換至群組模式然後顯示「緊急電話使用中」。

在通話中選擇群組

如果在話中開始選擇群組，則「使用中群組」或「緊急呼叫使用中」畫面將會消失。

選擇範圍

若要選擇範圍：

1. 在群組模式中，按下**選項**，然後按下**範圍**。
2. 使用導覽鍵在範圍間捲動。
3. 按下**確認**以選擇該範圍（或按住 **PTT** 即可在新範圍中撥號）。

注意

服務供應商可能會將範圍捲動設定為：

- 在範圍中捲動 — 在通話群組捲動時若已達到範圍結尾時，再捲動就會重新開啓該範圍的通話群組清單。
- 捲動至下個範圍 — 在通話群組捲動時若已達到範圍結尾時，再捲動就會切換至下個範圍中的通話群組清單。

啓動/停用掃瞄

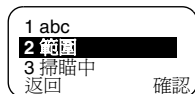
請參閱第 84 頁的「設定通話群組掃瞄」。

進行群組呼叫

1. 按下 **(Mode)** 直到螢幕上已出現**群組模式**。在本範例中，「**範圍 10**」是上次選取的範圍，而「**通話群組 1**」則為上次選取通話群組。

如果您按下**選項**，則可以選擇 **1 abc**、**2 範圍**或**3 掃瞄中**（請參閱第 33 頁的「在啓動掃瞄功能下接聽群組呼叫」）。

2. 如果出現您要撥號的通話群組，請按住 **PTT**。等待「通話允許」音（如果已設定），然後對麥克風說話。放開 **PTT** 即可收聽。
3. 若要撥號的通話群組未顯示，按下導覽鍵即可在通話群組間捲動。按下**確認**即可選擇通話群組。按下 **PTT** 即可在新通話群組中撥號。
4. 如果顯示的不是所需的範圍，請按下**選項**，然後再按下**範圍**。使用方向鍵在範圍間捲動。若要取消範圍捲動，請按下**返回**。



按下**確認**以選擇該範圍（或 **PTT** 即可在新範圍中撥號）。在新範圍中撥號給此範圍中上次選取通話群組。

在開始進行撥號時，在所選通話群組中所有已開機的成員都可接收到此傳輸。

注意

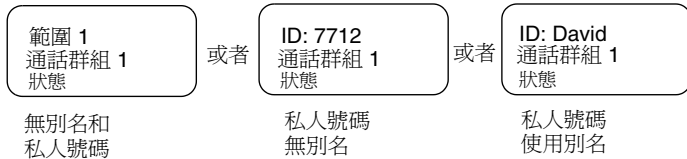
當您不在所選群組的正常服務涵蓋範圍時，就會出現「無群組」訊息。此時您必須選取在您工作地點中有效的新通話群組。

接聽群組呼叫

除非 MTM800 正在進行通話，否則將會自動切換至群組模式並接收傳輸。若要回覆呼叫，只要按住 **PTT** 即可。

MTM800 會顯示群組名稱以及來電者的私人號碼或姓名（別名）（如果之前已儲存在您的電話簿中）。若接收到來自最愛群組的呼叫，對講機將會顯示「我的群組」範圍以及該群組的別名。

以下範例畫面說明來電者私人號碼 (ID 7712) 的顯示方式。



注意

有關來電提示，請參閱鈴聲功能表中選項中的設定（第 79 頁）。

注意

當接收到群組呼叫時，MTM800 會發出「新群組呼叫」音。（如果您的服務供應商已設定此功能）。

在關閉掃描功能下接聽群組呼叫

您僅能接聽來自選取的通話群組或相關的 ATG 的群組呼叫。

在待機模式中接聽群組呼叫

在自動模式切換中，您可在任意模式下接聽群組呼叫。MTM800 將會自動切換至群組模式並接收傳輸。

使用中群組
通話群組 4
狀態

在群組呼叫期間接收另一通群組呼叫

視服務供應商對來電的設定而定，來電可能會：

- 強制您接聽，並中斷進行中的呼叫（如果來電的優先性高於進行中的呼叫）。

或者

- 顯示您有呼叫（如果來電的優先性高於進行中的呼叫）。

> 若要接受來電，按下**加入**。

> 若要取消來電，按下**結束**。

ID: 7712
通話群組 4
結束 加入

在啓動掃描功能下接聽群組呼叫

在掃描功能啓動下，您可接聽來自所設定掃描清單的群組呼叫，還可接聽來自所選通話群組或相關 ATG 的群組呼叫。

接聽掃描呼叫和接聽相關 ATG 或在掃描關閉下接聽選擇呼叫（請參閱上頁）相同，除了以下差別之外：

- 在待機模式中接聽來電的螢幕不同，如圖所示。
- MTM800 會發出提示音，相關說明請參閱下列注意事項。

注意

當接收到高優先性群組呼叫時，MTM800 會發出「高優先性群組呼叫」音。（如果您的服務供應商已設定此功能）。

注意

當接收到來自掃描清單（非高優先性群組）的群組呼叫時，MTM800 會發出「新群組呼叫」音。（如果您的服務供應商已設定此功能）。

ID: 7712
通話群組 4
結束

接聽緊急群組呼叫

若需詳細資訊，請參閱第 20 頁。

接收廣播呼叫

若需詳細資訊，請參閱第 21 頁。

傳輸抑制

用戶必須先啓動傳輸抑制 (TXI) 模式，再進入對無線電射頻 (RF) 敏感地區，例如醫院或可能發生爆炸的環境；在此類地區可能會由於傳輸無線電而有危害安全之虞。

注意

只有在 TXI 模式已啓動或中斷對講機電源時才能抑制 MTM800 的無線電波。

只能在群組模式中啓動傳輸抑制。在傳輸抑制模式中，對講機在緊急群組呼叫以外的任何情況下均不會進行傳輸。即使 MTM800 在 TXI 模式中仍可啓動緊急群組呼叫。

所有會造成傳輸，例如向網路註冊、變更通話群組或範圍、傳送訊息、按下 **PTT** 等的對講機功能和按鍵都會停用。在此情況下，螢幕會顯示「不允許在 TXI 模式」而且對講機會發出「傳輸抑制」提示音。

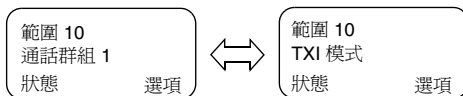
當進入無安全之虞的地方時（例如離開對無線電射頻 (RF) 敏感地區），即可停用傳輸抑制模式，而對講機也會回到正常操作。

有關設定 TXI 模式的說明，請參閱第 83 頁的「設定傳輸抑制 (TXI) 模式」。

注意

若要啓動或停用 TXI 模式，您可使用其中一個可編程鍵（如果您的服務供應商已設定）。您必須按住鍵一段預設時間（由您的服務供應商設定此時間值）。

啓動傳輸抑制時會持續亮起橘色 LED 並在兩畫面之間閃爍：



動態指定群組號碼 (DGNA)

DGNA 為網路營運商或授權使用者以無線方式動態分配新的通話群組或更新現有通話群組，以選取對講機。使用支援性服務訊息 (SS-DGNA)，網路營運商可命令您的對講機新增通話群組至現有的通話群組，或將通話群組從清單刪除。可藉由傳輸資料至您的 MTM800 以完成此項操作。

注意

您的服務供應商可將某些通話群組歸在一個超群組之下，並以 DGNA 形式將它傳送至您的 MTM800。在此情況下，您可以參與超群組中所有群組的通話。

接收 DGNA 並顯示通知訊息



當接收到 DGNA 而且您的服務供應商已設定 DGNA 通知時，您會聽到提示音並會顯示訊息（「正在設定項目 ...」），然後會顯示新的指派。

通話群組 6 已加入

返回

查看

如果您的服務供應商未設定 DGNA 通知功能，則只有當 DGNA 已變更選取群組時才會聽到提示音。

1. 若要檢視新增/刪除的通話群組詳細資訊，請按下**查看**。您可使用   鍵在清單中捲動。

A: <name1>
< 範圍 >

返回

選擇

2. 若要回到之前的模式，請按下**返回**。

3. 若要選擇 DGNA 群組，請按下**選擇**。或使用導覽鍵捲動至另一個群組，然後按下**選擇**。

注意

在您退出 DGNA 通知畫面後，選擇鍵會消失。若要選擇剛加入的群組，請參閱第 27 頁。

如果已設定，剛加入的群組也會成為剛選取的通話群組。

如果群組已取消指派，則不會變更群組或已將對講機關機再開機，則對講機將會回到其之前的通話群組。

如果在捲動時接收到 DGNA，將會出現訊息指出「通話群組清單已更新」。

通話群組清單
已更新

螢幕將在幾秒後會回到最初的 DGNA 螢幕，並指出此項更新。

通話群組 12 已移除
返回 查看

如果收到「刪除所有通話群組」指派的 DGNA 訊息，MTM800 將會顯示下列訊息：

所有通話群組
已刪除
返回

接收 DGNA 但不顯示通知訊息

如果您的服務供應商未設定 DGNA 通知功能，則只有當 DGNA 已變更選取群組時才會聽到提示音和通知訊息。

DGNA 自動選擇群組

如果您的服務供應商已設定 DGNA 自動選擇功能，當對講機接收到 DGNA 訊息時，對講機將會自動將通話群組設為選取群組。

按鈕/腳踏開關

此功能讓使用者按下緊急按鈕/腳踏開關即可傳送預先定義的狀態訊息。您無法使用 TMO 緊急模式、緊急通報和撥打 TMO 緊急群組/私人通話。

設定訊息位址與傳送：

- 可由服務供應商預先定義此位址，如果未預先定義，則將會傳送至目前選取的群組
- 如果未選取群組，則會將訊息傳送至保留位址
- 即使使用者目前正在使用服務，仍會傳送訊息

指示訊息視服務供應商而定。可停用狀態訊息的顯示提示/提示音。

當對講機已使用 PIN 碼鎖定，使用者仍可按下緊急按鈕/腳踏開關傳送訊息。如果對講機不在服務範圍，使用者只會看到操作失敗的訊息。

DMO 群組呼叫

一般說明

在 DMO（直通模式操作）中，MTM800 可不需搭配您服務供應商的基礎設施使用。

直通模式可讓相同通話群組中的對講機之間進行通訊。

注意

在 DMO 中，您只能進行群組呼叫、緊急群組呼叫和私人半雙工呼叫。

您可接收的呼叫包括：

- 來自選取的通話群組。
- 來自通話範圍內的其他使用者（如果服務供應商已設定）。這稱為 **InterMNI**（行動網路識別）呼叫。
- 從開放群組。（開放群組是所有 DMO 群組所屬的超群組（super-group））。

當您開始進行呼叫時，選取通話群組中已開機以及列於群組用戶身份（由服務供應商設定）的成員都會收到此項傳輸。如果對講機中已啟用**閘道**選項，則在 DMO 中，MTM800 可與集群系統（反之亦然）通訊。

若要增強對講機的 DMO 涵蓋範圍，如果已在對講機中啟用了**中繼器**選項，則 DMO 群組可連結至中繼器。此外，還可使用 **GW + Rep**（閘道和中繼器）通訊模式。

當將對講機設為 DMO 時如果傳輸抑制已啟動，則會停用 PTT。您僅能接聽。有關傳輸抑制的詳細資訊，請參閱第 34 頁。當傳輸抑制已啟動時，允許進行 DMO 通話群組選擇。

選擇通話群組

請參閱第 27 頁的「選擇通話群組」。

在通話中/接聽來電時變更通話群組

請參閱第 30 頁的「在通話中/接聽來電時變更通話群組」。

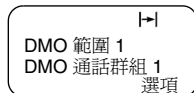
從 TMO 切換至 DMO 或從 DMO 切換至 TMO

依下列一種方式進入 TMO 或 DMO：

- 若要從 TMO 切換至 DMO，請按下 **Menu** **6 2 2**。
- 若要從 DMO 切換至 TMO，請按下 **Menu** **6 2 1**。
- 按下 TMO/DMO 單鍵按鈕（如果已由您的服務供應商設定）。

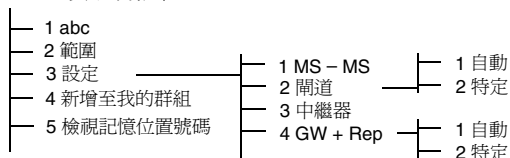
閘道/中繼器選擇

使用 DMO 設定子功能表來設定閘道和中繼器選項。



1. 在 DMO 中按下**選項**以進入選項功能表：

DMO 選項子功能表



2. 捲動至 **3 設定**，然後按下**確認**。

選擇 DMO 群組呼叫（MS 對 MS）

若要從閘道或中繼器模式變更至 MS - MS 模式（DMO 對講機之間的呼叫）：

1. 按下**選項**，捲動至 **3 設定**然後按下**確認**。
2. 捲動至 **1 MS - MS**，然後按下**確認**。

以下訊息會顯示數秒：
「將使用 MS - MS」。



透過閘道選擇 DMO 群組呼叫

在 DMO 模式中，請繼續下列步驟選擇閘道，為選取的通話群組設定透過閘道進行呼叫：

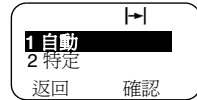
1. 按下**選項**，捲動至 **3 設定**然後按下**確認**。

2. 捲動至 **2 閘道**，然後按下**確認**。



3. 螢幕將顯示上次的閘道選擇方式。使用導覽鍵在選項中捲動選擇，然後按下**確認**：

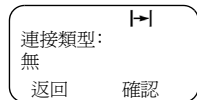
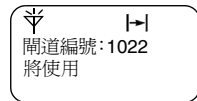
自動 — MTM800 將會使用該通話群組第一個可用的閘道。選取該選項時，閘道圖示將會閃爍。



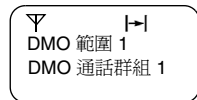
特定 — MTM800 只能使用採用該通話群組指定閘道位址的閘道。

選擇「特定」時，將會顯示下列其中一項：

- 選取的閘道位址（例如：**1022**）、服務供應商預先設定或您之前使用鍵盤自行輸入的閘道位址。按下**確認**以使用目前的位址，或透過鍵盤輸入新的位址，然後按下**確認**。選取該閘道時，閘道圖示將會閃爍。
- 「無」表示尚未為該通話群組選取閘道。透過鍵盤輸入位址，然後按下**確認**。選取該閘道時，閘道圖示將會閃爍。



當 MTM800 偵測到有適用的閘道時，閘道圖示會持續顯示。

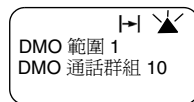


透過中繼器選擇 DMO 群組呼叫

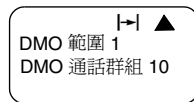
在 DMO 模式中，請繼續下列步驟選擇中繼器選項，為選取的通話群組設定透過中繼器進行呼叫：

1. 按下**選項**，使用導覽鍵捲動至 **3 設定**然後按下**確認**。
2. 捲動至 **3 中繼器**，然後按下**確認**。

3. MTM800 將會使用該通話群組第一個可用的中繼器。選取該選項時，中繼器圖示將會閃爍。



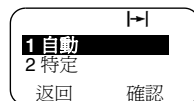
當 MTM800 偵測到適用中繼器的出現訊號時，中繼器圖示將會持續顯示。



透過閘道和中繼器選擇 DMO 群組呼叫

在 DMO 模式中，請繼續下列步驟選擇閘道和中繼器選項，為選取的通話群組設定透過閘道或中繼器（優先透過閘道）進行呼叫：

1. 按下**選項**，捲動至 **3 設定** 然後按下**確認**。
2. 捲動至 **4 GW + Rep**，然後按下**確認**。
3. 螢幕會顯示上個「GW + Rep.」類型選擇。使用導覽鍵在選項中捲動選擇，然後按下**確認**：

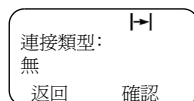
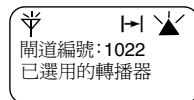


自動 — MTM800 將會使用該通話群組第一個可用的閘道。選取該選項時，閘道圖示和中繼器圖示將會閃爍。

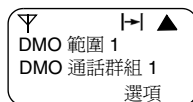
特定 — MTM800 只能使用採用該通話群組指定閘道位址的閘道。

選擇「特定」時，將會顯示下列其中一項：

- 選取的閘道位址（例如：**1022**）、服務供應商預先設定或您之前使用鍵盤自行輸入的閘道位址。按下**確認**以使用目前的位址，或透過鍵盤輸入新的位址，然後按下**確認**。選取該閘道時，閘道和中繼器圖示將會閃爍。
- 「無」表示尚未為該通話群組選取閘道。透過鍵盤輸入位址，然後按下**確認**。選取該閘道時，閘道和中繼器圖示將會閃爍。

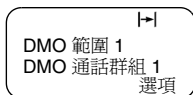
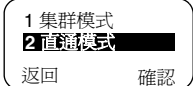
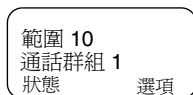


當 MTM800 偵測到適當的閘道及/或中繼器時，閘道及/或中繼器圖示會持續顯示。



進行 DMO 群組呼叫 (MS 對 MS)

1. 按下 **(Mode)** 直到螢幕上已出現群組模式。
2. 按下 **(Menu) 6 2 2** (另請參閱第 83 頁)。若要變更範圍和通話群組，請參閱第 31 頁的「進行群組呼叫」的步驟 3 和 4。
3. 如果出現所需的通話群組和範圍，請按下 **PTT**。等待「通話允許」音 (如果已設定)，然後對麥克風說話。放開 **PTT** 即可收聽。



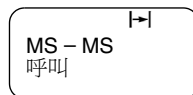
若要變更通話群組和範圍，請參閱「群組模式」一節，第 27 頁。

注意

若要快速變更操作模式，您可使用其中一個可編程鍵 (如果您的服務供應商已設定)。

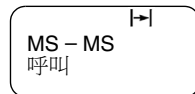
透過閘道進行 DMO 群組呼叫

1. 在 DMO 中，依第 38 頁的「透過閘道選擇 DMO 群組呼叫」中所述選擇閘道。
2. 對選取的通話群組進行呼叫：
 - 如果在閘道無法使用時按下 **PTT**，將會不透過閘道進行 DMO 呼叫。閘道圖示將會消失。
 - 如果在閘道可用時按下 **PTT**，但是閘道卻拒絕此呼叫，則 MTM800 將會發出提示音並顯示下列畫面，通知您透過閘道的呼叫已中止，而且對講機將自動不透過閘道進行呼叫。閘道圖示將會消失。
 - 如果在閘道可用時按下 **PTT**，將會透過閘道進行 DMO 呼叫。閘道圖示將會持續顯示。



透過中繼器進行 DMO 群組呼叫

1. 在 DMO 中，依第 39 頁的「透過中繼器選擇 DMO 群組呼叫」中所述選擇中繼器選項。
2. 對選取的通話群組進行呼叫：
 - 如果在中繼器無法使用時按下 **PTT**，將會不透過中繼器進行 DMO 呼叫。中繼器圖示將會消失。
 - 如果在中繼器可用時按下 **PTT**，但是中繼器卻拒絕此呼叫，則 MTM800 將會發出提示音並顯示下列畫面，通知您將不透過中繼器進行呼叫。中繼器圖示將會消失。
 - 如果在中繼器可用時按下 **PTT**，將會透過中繼器進行 DMO 呼叫。中繼器圖示將會持續顯示。



透過閘道和中繼器進行 DMO 群組呼叫

1. 在 DMO 中，依第 40 頁的「透過閘道和中繼器選擇 DMO 群組呼叫」中所述選擇閘道和中繼器選項。
2. 對選取的通話群組進行呼叫：
 - 如果在閘道和中繼器均無法使用時按下 **PTT**，將會不透過閘道和中繼器進行 DMO 呼叫。閘道和中繼器圖示將會消失。
 - 如果在閘道和中繼器均可用時按下 **PTT**，但是閘道拒絕了此呼叫，則會嘗試透過中繼器進行呼叫。
 - > 如果呼叫成功，MTM800 將會顯示「中繼器呼叫」訊息，並會透過中繼器進行呼叫。閘道圖示將會消失。
 - > 如果呼叫不成功，MTM800 將會顯示「MS - MS 直通模式」訊息，並會進行對講機之間的呼叫。閘道和中繼器圖示將會消失。

- 如果在閘道和中繼器均可用時按下 **PTT**，則會嘗試透過閘道進行呼叫。
 - > 如果成功，則 **MTM800** 將會透過閘道進行 **DMO** 呼叫。閘道圖示將會持續顯示。中繼器圖示將會消失。
 - > 如果與閘道同步不成功，則會嘗試透過中繼器進行呼叫。
 - > 如果呼叫成功，**MTM800** 將會顯示「**中繼器呼叫**」
 - > 訊息，並會透過中繼器進行呼叫。閘道圖示將會消失，而中繼器圖示將會持續顯示。
 - > 如果呼叫不成功，**MTM800** 將會顯示「**MS – MS 直通模式**」訊息，並會進行對講機之間的呼叫。閘道和中繼器圖示將會消失。

注意

如果選取了閘道和中繼器模式，且其中一個裝置無法使用，則會依照該裝置未選取時的情況進行呼叫。

範例：當閘道可用但是中繼器無法使用時，在嘗試透過閘道進行呼叫失敗後，會立即回到 **MS – MS 模式**，並顯示「**MS – MS 直通模式**」訊息。

接聽 DMO 群組呼叫

只有當 **MTM800** 在 **DMO** 中，才能接聽 **DMO** 群組呼叫。

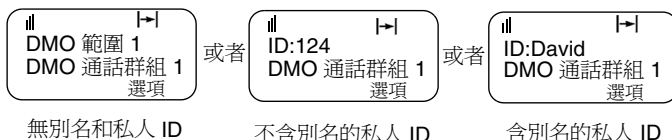
MTM800 將會顯示來電者的私人號碼或別名，以及通話群組名稱。

以下範例畫面說明來電者身份的顯示方式。

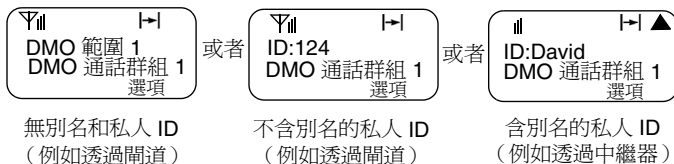
注意

有關通話提示，請參閱鈴聲功能表中選項中的設定（第 79 頁）。

接聽 DMO 群組呼叫 (MS – MS)



接聽 DMO 群組呼叫 (透過閘道/中繼器)



會依據進行中的呼叫類型（閘道或中繼器）顯示閘道或中繼器圖示。

注意

- 如果選取 MS 對 MS 模式，且對講機透過中繼器接收到呼叫時，將會顯示中繼器圖示（如果服務供應商已啓用了中繼器模式，否則將不會接受此呼叫）。
- 如果選取了閘道模式但是閘道無法使用時，當有閘道來電時，閘道圖示將會持續顯示。

DMO 私人通話

如果服務供應商已設定此功能，則可以在 DMO 中撥打和接聽私人通話。

不過，雖然閘道及/或中繼器選項已啓動，卻無法用於 DMO 私人通話。DMO 私人通話是兩部 TETRA 對講機 (MS – MS) 之間直接通訊。

若需詳細資訊，請參閱第 48 頁的「在 DMO 中撥打私人通話」。

接聽緊急群組呼叫

若需詳細資訊，請參閱第 60 頁的「DMO 中的緊急呼叫」。

私人通話

一般說明

私人通話（又稱為點對點或個別通話）是指兩人之間的通話。其他的對講機無法收聽此對話。

此類通話可以是

- 在 **TMO** 中進行的全雙工通話（如果系統許可），或
- 在 **TMO** 或 **DMO** 中進行的半雙工通話。

在全雙工通話中，通話雙方可同時說話，而在半雙工通話時，一次僅能有一方說話。

注意

如果您的服務供應商已限制存取電話簿，則可能無法建立新連絡人、編輯現有連絡人或撥打不在電話簿中的號碼。

進入私人模式

若要進入私人模式，反覆按下 **Mode** 直到螢幕上出現**私人模式**。

在本範例中，**8008801** 是上次撥出或已撥打的對講機私人號碼。畫面會顯示無別名，因為它不是預設在私人號碼清單中的號碼。如果您希望撥號給此人，請按下 **PTT**。

如果顯示的不是您要撥號的對象，請依下列其中一種方式輸入其他私人號碼：

- 上次撥出的號碼，
- 直接輸入，
- 簡碼撥號，
- 在清單中捲動，或
- 字母搜尋。

按下**返回**即可回到私人模式畫面。



有關在對無線電射頻 (RF) 敏感地區操作 MTM800 的資訊，請參閱第 34 頁的「傳輸抑制」。

注意

若傳輸抑制已啟動，當有私人通話來電就會發出提示，但是您無法接聽來電。

輸入私人號碼

上次撥出的號碼

當對講機進入私人待機模式時，將會顯示上次撥出的號碼。按下 **PTT** 即可撥打此號碼。


直接輸入

1. 輸入私人號碼。如果輸入的號碼已預先儲存在私人電話簿中，則 **MTM800** 會為您找到此號碼。
2. 若要将此號碼儲存在電話簿中，請按下 **儲存** 並依照提示進行（請參閱第 68 頁的「更新私人電話簿」）。



簡碼撥號

如果您的服務供應商已設定此功能，簡碼撥號功能可讓您在撥號只需撥打該連絡人的部分號碼。**MTM800** 將會自動完成剩下的號碼，並根據您對講機的身份以無線方式傳送。

例如：

1. 撥打 456（而非完整號碼 4282456）。
2. 若要進行通話，按下 **PTT**。
3. 若要掛斷，請按下 .


清單捲動

若要在號碼和姓名清單中向後或向前捲動，請按下  或 .

字母搜尋

字母搜尋讓您只要輸入此號碼相關姓名（或別名）的第一個字母即可快速找到儲存的私人號碼。


D=David
1024
取消

1. 按下 **abc**。
2. 按下您要在預先儲存清單中搜尋的姓名第一個字母的對應數字鍵（在本例中為  鍵）。



注意

如果無以該字母為首的儲存名稱，MTM800 會自動依字母順序進一步搜尋，直到找到下個名稱。如果在清單中找到多個以該字母為首的名稱，則可使用捲動鍵來檢視其他名稱。


在 TMO 中撥打私人通話

1. 輸入要撥打號碼。
2. 按下再放開 **PTT**。您會聽到鈴聲。等待對方接聽您的來電。
3. 按住 **PTT** 即可說話，而放開 **PTT** 即可收聽。
4. 若要結束通話，請按下 。如果對方結束通話，則會顯示「通話結束」訊息。

在 TMO 中撥打私人全雙工通話

1. 輸入要撥打號碼。
2. 按下再放開 。在成功撥號後，您將會聽到鈴聲。等待對方接聽您的來電。
3. 若要結束通話，請再次按下 。如果對方結束通話，則會顯示「通話結束」訊息。

在 TMO 中接聽私人通話

1. MTM800 會自動切換至私人模式並開始響鈴。螢幕會顯示來電者的身份。
2. 若要回覆來電，只要按下 **PTT** 即可。
3. 若要結束或取消來電，按下 。螢幕會自動返回收到來電之前的模式。



私人通話
ID: 82114

如果對方結束通話，則會顯示「**通話結束**」訊息。

注意

有關通話提示，請參閱鈴聲功能表中選項中的設定（第 79 頁）。

在 TMO 中接聽私人全雙工通話

1. MTM800 會自動切換至私人模式並開始響鈴。螢幕會顯示來電者的身份。
2. 若要接聽來電，請按下  或鍵盤上的任意鍵（如果您的經銷商已設定此功能）。
3. 若要結束或取消來電，按下 。螢幕會自動返回收到來電之前的模式。

私人通話
ID: 82114

如果對方結束通話，則會顯示「**通話結束**」訊息。

注意

有關通話提示，請參閱鈴聲功能表中選項中的設定（第 79 頁）。

在 DMO 中撥打私人通話


如果服務供應商已設定此功能，則可以在 DMO 中撥打和接聽私人通話。只有當 MTM800 在 DMO 中，才能撥打或接聽 DMO 私人通話。

注意


不支援透過 DMO 中繼器及/或 DMO 開道進行私人通話。

發話和收話方應在同一個通話群組。

撥打 DMO 私人通話

1. 若要進入私人模式，反覆按下  直到螢幕上出現「**私人模式**」。
2. 依第 46 頁的「輸入私人號碼」中所述輸入號碼。
3. 按住 **PTT**。等待通話允許音（如果已設定）後再說話，然後放開 **PTT** 收聽對方答話。

私人模式
2234
狀態 abc

4. 在經過預先設定的時間後，或當您按下  時，通話即告結束。

注意


在 DMO 中，撥打私人通話時不會檢查出現訊號。也就是說，當您撥號時並不確定對方是否可接聽。

接聽 DMO 私人通話

當接收到 DMO 私人通話時，不需對方接聽就會立即進行通話。

私人模式使用中
David

[更多](#)

1. 按下 **PTT** 即可開始進行交談。
2. 在經過預先設定的時間後，或當您按下  時，通話即告結束。

注意

如果對方按下 ，將會暫停 DMO 私人通話一段時間，若發話方仍在傳輸中，則會再度加入通話。

撥號時有來電

如果撥號時收到來電，當您接聽來電時 MTM800 將會留在目前的模式中，而且螢幕將會維持不變。仍可在目前螢幕上繼續撥號。


注意

當接收到緊急呼叫時，MTM800 會中止撥號並切換至群組模式然後顯示「緊急電話使用中」。

撥打私人 PPC（優先呼叫）

注意

只有當您的服務供應商設定此功能後才能使用。

1. 輸入私人號碼然後按下 **PTT** 或 。
2. 如果螢幕顯示對方在忙線中，請按 **是** 以中止進行中的通話。
3. 您會聽到鈴聲。等待對方接聽您的來電。
4. 以一般半雙工或全雙工私人通話形式繼續進行通話。

對方忙線
中斷？
是 否

通話佇列

在建立通話時若無可用的基礎設施資源，或在重選細胞期間正在通話中，通話將會排入佇列。**MTM800** 將會在佇列中維持一段預設時間。如果在這段期間內有可用資源，將會繼續進行通話。如果在經過一段時間後仍無可用資源，**MTM800** 將會結束通話。

電話與 PABX 通話

一般說明

電話模式可讓您撥打固定線路電話號碼或行動電話號碼。
在本文件中，我們以「電話號碼」指稱此類號碼。

專用自動交換分機 (PABX) 模式可讓您撥打本端（辦公室）分機號碼（如果您的服務供應商已啓用此模式）。

這兩種模式都提供相同的撥號功能。

有關在對無線電射頻 (RF) 敏感地區操作 MTM800 的資訊，請參閱第 34 頁的「傳輸抑制」。


注意


若傳輸抑制已啓動，當有電話或 PABX 來電就會發出提示，但是您無法接聽來電。

注意

如果您的服務供應商已限制存取電話簿，則可能無法建立新連絡人、編輯現有連絡人或撥打不在電話簿中的號碼。

撥打電話或 PABX 通話

1. 按下  直到螢幕上已出現**電話模式**。


如果需要 PABX 通話，請再按一下  鍵。**PABX 模式**會出現在螢幕上。

電話模式
039694040
狀態 abc

2. 在變更至電話/PABX 模式後將會在螢幕上顯示上次撥出的號碼。

在本範例中，上次撥出的電話號碼是 039694040。

3. 如果您希望撥號給此人，請按下 。

4. 若要掛斷，請再次按下 。

如果顯示的不是您要撥號的對象，請依下列其中一種方式輸入其他號碼：





- 上次撥出的號碼，
- 直接撥號，
- 記憶位置撥號，
- 單鍵撥號，

- 在清單中捲動，或
- 字母搜尋。



按下**返回**即可回到模式畫面。

上次撥出的號碼

當未顯示任何號碼時，按下  將會進入上次撥出的電話與私人通話號碼清單。




1. 若要在清單中向後或向前捲動，請按下  或 。
2. 若要撥打電話，請按下 。
3. 若要掛斷，請再次按下 。

直接撥號

1. 使用鍵盤撥打完整電話號碼。
2. 若要將此號碼儲存在電話簿中，請按下**儲存**並依照提示進行。
3. 若要撥號，請按下 。
4. 若要掛斷，請再次按下 。

記憶位置撥號

記憶位置撥號功能可讓您最多使用 2 位數字來撥打號碼，而不需撥打完整號碼。記憶位置號碼是指電話簿中的項目位置。

1. 輸入預先設定的記憶位置號碼（例如：5）然後按下 。
2. 若要撥號，請按下 。
3. 若要掛斷，請再次按下 。

單鍵撥號

單鍵撥號功能可讓您以按住一個數字鍵 (2 – 9) 的方式撥號。此號碼是指電話簿中的項目位置 (2 – 9)。

1. 按住所需數字鍵約數秒。MTM800 將會顯示該號碼然後撥號。
2. 若要掛斷，請按下 。

注意


如果單鍵功能已啟用，則會停用單鍵撥號功能（請參閱第 16 頁）。

清單捲動

1. 若要在號碼和姓名清單中向後或向前捲動，請按下  或 。
2. 若要撥號，請按下 。
3. 若要掛斷，請再次按下 。

字母搜尋



字母搜尋讓您只要輸入此號碼相關姓名（或別名）的第一個字母即可快速找到儲存的號碼。

1. 按下 **abc**。
2. 按下您要在預先儲存清單中搜尋的姓名第一個字母的對應數字鍵（在本例中為 ）。

D=David
1024

注意

如果無以該字母為首的儲存名稱，MTM800 會依字母順序進一步搜尋，直到找到下個名稱。如果在清單中找到多個以該字母為首的名稱，則可使用捲動鍵來檢視其他名稱。

3. 若要撥號，請按下 。
4. 若要掛斷，請再次按下 。

DTMF 通話中撥號

如果您的服務供應商已設定此功能，DTMF 可讓您在通話中與自動應答裝置（例如語音信箱或答錄機）通訊。


在通話中，按下按鍵 **0-9、*、#**。按下時，按鍵將會發出按鍵音並會在畫面上顯示輸入的數字。

話機使用中
12345*#67890

撥號時有來電

請參閱第 49 頁的「撥號時有來電」。

接聽電話或 PABX 通話

1. MTM800 會自動切換至電話模式並開始響鈴。
2. 若要接聽來電，請按下  或任意鍵（不包括開機/關機）。
3. 若要結束或取消來電，按下**結束**。螢幕會自動返回收到來電之前的模式。

如果對方結束通話，則會顯示「**通話結束**」訊息。

注意

有關通話提示，請參閱鈴聲功能表中選項中的設定（第 79 頁）。

緊急情況模式

一般說明

在**集群模式 (TMO)** 中，您可向調度員傳送**緊急通報**並撥打和接收**緊急群組呼叫**或**私人通話**。當對講機在 TMO 中時可接聽對選取群組、相關 ATG（公告通話群組）或掃描群組進行的緊急群組呼叫。如果 ATG 是目前選取的群組，則對講機將可接聽到對此 ATG 相關群組進行的緊急群組呼叫。（有關 ATG 的資訊，請參閱第 26 頁。）MTM800 也可以讓您撥打緊急群組呼叫而不需按住 PTT（緊急麥克風功能）。

在**直通模式 (DMO)** 中，您可撥打和接收**緊急群組呼叫**。

您的服務供應商可設定

- 緊急群組呼叫，
- 緊急私人通話（如果基礎設施支援此功能），
- 緊急通報，
- 緊急麥克風功能，以及
- 緊急模式指示。

當從 TMO 切換至 DMO 時對講機仍會處於緊急模式中。當從 DMO 切換至 TMO 時，如果可在 TMO 中使用緊急模式，則對講機也會處於緊急模式中。

在系統中會對緊急呼叫分配緊急優先性。

如果 MTM800 在作用中並已附加至任意通話群組時，就會啓用這些功能。

緊急群組呼叫可設為**非戰術 (non-tactical)** 或**戰術 (tactical)**：

- 您可對服務供應商指定的通話群組進行**非戰術呼叫**。在進行呼叫時此群組可能會與對講機畫面上顯示的群組不同。在退出非戰術緊急模式後，對講機將會附加至進行非戰術呼叫之前選取的群組。在非戰術緊急模式中時，您將無法切換通話群組。

在非戰術緊急模式中並不會受到 DGNA 訊息的影響，只有在退出非戰術緊急模式時才會受到影響。

- 您可對目前選取的通話群組進行**戰術**呼叫。

注意

有關通話提示，請參閱鈴聲功能表中選項中的設定（第 79 頁）。

進入 TMO 或 DMO

依下列一種方式進入 TMO 或 DMO：

- 按下 **Menu** 6 2 1 (TMO)
- 按下 **Menu** 6 2 2 (DMO)
- 按下 TMO/DMO 單鍵按鈕（如果已由您的服務供應商設定）

進入或退出緊急模式

若要從任意模式中進入緊急模式，請按下 。

注意

當在 TMO 中進入緊急模式時，MTM800 將會自動將緊急通報傳送給調度員（如果您的服務供應商已設定此功能）。

對講機會退出緊急模式並在下列情況中會切換至群組模式：

- 按住**返回**。
- 對講機會附加至非戰術 (non-tactical) 群組。
- 系統基礎設施會卸除選取的非戰術 (non-tactical) 群組。



注意

按下緊急鍵所需的時間預設為 0.5 秒。可由您的服務供應商設定此時間值。

注意

按下緊急鍵後，即使已啓用傳輸抑制功能，仍會使對講機立即進行傳輸。
進入緊急模式時，對講機應已離開對無線電射頻 (RF) 敏感地區！

注意

當按下緊急鍵  時，MTM800 會中斷環場收聽通話。

靜音緊急呼叫

注意

此功能可由您的服務供應商啓用 / 停用。

靜音緊急呼叫模式是一種緊急服務，在任何緊急呼叫操作下，不會針對待機狀態發出提示音或顯示提示。在此模式下，只有使用者才知道對講機處於緊急呼叫模式並可傳送緊急呼叫通報。

當使用者退出緊急呼叫後，將會恢復所有設定。

若要退出靜音緊急呼叫模式，使用者需要按下**退出**快捷鍵。

變更範圍或通話群組


如果緊急群組呼叫已設為「戰術」，則您可以選擇顯示以外的通話群組，按下導覽鍵然後再按下**確認**。

若要變更範圍，請按下**選項**，然後依第 31 頁的「進行群組呼叫」中所述的步驟進行。

TMO 中的緊急呼叫

傳送緊急通報

MTM800 將會傳送緊急通報（如果您的服務供應商已設定此功能）：

- 在進入緊急模式時自動傳送。
- 當 MTM800 在緊急模式中時按下 。
- 如果在緊急模式中變更群組。

螢幕會顯示下列一個傳送報告：

- **警告已傳送**
- **警告傳送失敗**

在這兩種情況下，螢幕都會在數秒內返回緊急模式主畫面。

由於在 DMO 中並不傳送確認，所以「**警告已傳送**」訊息確認僅會傳送警報。

或者 – 如果您的服務供應商已設定此功能 – 在以下情況中 MTM800 將會傳送緊急通報：

- 如果之前不曾進入緊急模式時，按下緊急鍵/腳踏開關。
 - 其他緊急服務（例如啟動 TMO 緊急模式或進行緊急私人通話，若基礎設施支援的話）將無法使用。
 - 傳送緊急通報時不會顯示提示訊息或發出提示音。

注意

當使用者在「單站集群服務」區時，某些系統不支援緊急通報功能。（請參閱第 23 頁。）

進行緊急群組呼叫

在緊急模式中，若要撥打或接聽呼叫：

1. 按住 **PTT**。
2. 等待通話允許音（如果已設定）後再說話。
3. 放開 **PTT** 收聽。

注意

按下**緊急**鍵後，MTM800 將會進入 TMO 模式（如果您的服務供應商已設定此功能）。對講機會附加至預先定義的通話群組，並開始進行緊急群組呼叫。如果預先定義的通話群組無效，對講機會附加至上次選取的通話群組。

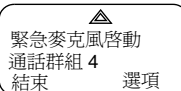
緊急麥克風功能

如果服務供應商已在您的 MTM800 中設定了緊急麥克風功能，您不需按住 **PTT** 就可以進行緊急群組呼叫。

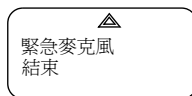
在進入緊急模式時會出現以下情況：


1. MTM800 將會自動傳送緊急通報給調度員（如果已由您的服務供應商設定）。
2. 您會聽到通話允許音。
3. 將會出現下列典型畫面：

麥克風會持續啟動一段時間（由您的服務供應商決定並設定）。

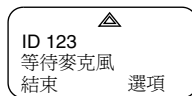


在緊急麥克風啓動期間已逾期，或您在緊急麥克風啓動期間按下 **PTT**，或是按下**結束**：將會出現「**緊急麥克風結束**」訊息，然後對講機會回到緊急模式。緊急麥克風功能會停用，而 **PTT** 操作會回到正常模式。



若要繼續，請再次按下 。

如果群組的其他成員已取得通話許可，則您會聽到「已接收到緊急呼叫」提示音。



如果您的服務供應商已設定此功能，則 **MTM800** 將會自動再次嘗試取得通話許可，並將顯示「**等待麥克風**」訊息。

注意

在此等待期間，**MTM800** 麥克風將不會啓動，直到再次顯示「**緊急麥克風啓動**」訊息。

接聽緊急群組呼叫

當對講機在 **TMO** 中時可接聽對選取群組、相關 **ATG**（公告通話群組）或掃描群組進行的緊急群組呼叫。如果 **ATG** 是目前選取的群組，則對講機將可接聽到對此 **ATG** 相關群組進行的緊急群組呼叫。（有關 **ATG** 的資訊，請參閱第 27 頁。）

當 **MTM800** 接收到呼叫時，螢幕將會顯示來電者的身份。如果螢幕在待機下，將會顯示「**緊急電話使用中**」。

如果在進入緊急模式時，**MTM800** 接收到緊急呼叫，而且您的服務供應商已啓用了緊急麥克風功能，則會顯示「**等待麥克風**」訊息。**MTM800** 將會嘗試取得通話許可。

注意

踩下緊急腳開關即可將 **MTM800** 在緊急麥克風模式下開機（請參閱第 10 頁的「開機/關機」）：如果麥克風/**PTT** 組件已連接至對講機前側的插槽而且已安裝外部麥克風/**PTT** 組件，則外部麥克風將會開啓。

DMO 中的緊急呼叫


您可對群組進行緊急群組呼叫。

您可接收到來自選取通話群組（如果您的服務供應商已設定）以及來自通話範圍內的其他使用者或開放群組的呼叫。（開放群組是所有 DMO 群組所屬的超群組 (super-group)）。

您可透過閘道或中繼器進行緊急呼叫。有關閘道和中繼器設定，請參閱第 38 頁的「閘道/中繼器選擇」。

進行緊急群組呼叫

若要進行或接聽呼叫：

1. 按住  鍵即可進入緊急模式。
2. 按住 **PTT**。
3. 等待通話允許音（如果已設定）後再說話。
4. 放開 **PTT** 收聽。

接聽緊急群組呼叫

螢幕會顯示緊急電話使用中，並以私人號碼或別名顯示來電者的身份。如果螢幕在待機下，將會顯示「**緊急電話使用中**」。

GPS 定位服務

一般說明

對講機的 GPS 定位功能會從環繞地球的全球定位系統 (GPS) 衛星擷取資訊，來判斷對講機的大致地理位置。此位置資訊的可用性和精確性（及所需的計算時間）取決於您使用對講機的環境。

例如，在室內、涵蓋位置、高樓之間或在其他無法清楚看到天空的情況下，通常很難取得 GPS 定位。

請參閱「**重要 – 謹記事項**」。

GPS 定位服務可在多方面協助您的調度員或同事，例如更有效率地部署資源或當您要求緊急服務時找到您對講機的位置。

對講機可設為在對講機螢幕上顯示位置資訊，或以無線方式傳送位置資訊給調度員，以顯示在控制中心（請洽詢服務供應商有關您的對講機組態設定）。

重要 – 謹記事項

當無法從多個衛星取得適當的訊號時（通常是因為您的 GPS 天線所在位置無法看到開闊天空），您的對講機的 GPS 功能將沒有作用。此類情況包括但不限於：

- 在地下地點
- 在隧道或車庫內
- 在任何其他金屬或水泥屋頂或結構之下
- 靠近功率強大的無線電或電視塔
- 當 GPS 天線被蓋住時（例如，以手或其他物體）或面向地面
- 在溫度超出對講機操作限制範圍過大的環境

即使在此種情況下仍可計算位置資訊，所需的時間可能會較長。因此，在任何緊急呼叫中，請隨時向您的調度員報告您的位置。此外，請注意即使可從多個衛星取得充足的訊號，您的 GPS 功能也只能提供大致位置，通常與您實際位置相差 20 – 100 公尺。

增強 GPS 效能

有時對講機的 GPS 功能可能無法成功完成位置計算。此時會出現訊息指出對講機無法取得充份的衛星訊號。

為使對講機的定位能力提升到最大，請依循以下準則：

- 當對講機與開闊天空之間無遮蔽時，最能充份發揮 GPS 功能。可能的話，請移至戶外，離開離高樓和綠蔭。
- 將車輛駛至接收訊號良好的地方，讓天線可無阻礙地接收到衛星訊號。GPS 衛星的訊號會傳輸至位於對講機天線中的 GPS 天線。請勿以手指或其他物體蓋住天線。
- 請留在網路涵蓋範圍地區。視您的服務供應商而定，網路將會為對講機提供資訊以協助您更快更精確判斷您的位置。

GPS 啓用/停用 (Menu 9 2)

1. 從主功能表，按下 **Menu 9 地點 – 2 介面**。

目前的選擇（開/關）會反白顯示。螢幕會顯示：

開 — 啓動定位服務

關 — 關閉定位服務

2. 捲動至所需的選擇然後按下**設定**。

如果 GPS 已啓用，但是對講機尚未與 GPS 衛星同步，則會出現以下待機畫面：

範圍 1
無 GPS 訊號
狀態
選項

進入 GPS 定位服務 (Menu 9)

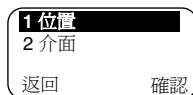
若要進入 GPS 子功能表，按下

Menu – 9 地點。

位置 — 提供實際的定位資訊。

介面 — 讓您啟用/停用 GPS 定位服務。

計算位置的預估精確度僅為概估值，可能會與報告的大致定位資訊的實際精確度相差甚大。



注意

- 差異程度取決於您服務供應商設定的 GPS 組態設定。
- GPS 定位功能表的可用性取決於對講機的組態設定，請洽詢您的服務供應商以取得更多資訊。

檢視您的位置 (Menu 9 1)

1. 從主功能表，按下 **Menu** – 9 地點 – 1 位置。

2. 此畫面會顯示下列有關您上次計算位置的資訊（如果有的話）：

UTC — 上次計算位置時的**時間**。

LAT — **緯度**，以度、分和秒表示。

LNG — **經度**，以度、分和秒表示。

SAT — 計算位置時使用的**衛星個數**。一般而言，衛星個數更多，計算的結果就更精確。

3. 捲動以檢視整個畫面。

若要再次計算您的位置，請按下**更新**。您的對講機可能需要幾分鐘的時間來判斷您的位置。在此期間，您的對講機通常會出現訊息：

顯示衛星不足，或

顯示資料不足。

有關取得最佳定位計算結果的秘訣，請參閱第 62 頁的「增強 GPS 效能」。

位置畫面會顯示更新資訊。若要取消之前完成的定位計算：

- 按下**返回**以回到上一個畫面。

每次對講機計算的大致位置後，會將最新的位置資訊儲存在您的對講機中，即使對講機關機仍會保留此項資訊。在下次檢視**位置**畫面時，將會看到此項資訊。




在嘗試判斷您的位置時，如果接收到對講機通話或提示時，**位置**畫面將會消失，但是您的對講機仍會嘗試判斷您的位置。如果計算成功，當下次檢視**位置**畫面時，將會顯示新的定位資訊。

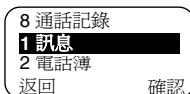
功能表

進入功能表選項

在通話期間您可進入功能表選項。如果您在檢視功能表時要撥號，對講機將會退出功能表。

使用捲動方式


1. 從任意模式，按下  即可進入功能表。
2. 若要捲動至所需的選項（例如 **2 電話簿**）然後按下  或 。
3. 若要進入該選項，按下 **確認**。




如果子功能表包含更詳細的子功能功能表項目集，如下例所示，重複步驟 2 和 3。


使用功能捷徑

您可將選項旁的號碼當成功能捷徑，以進入所需的子功能表。

1. 在任意模式中，按下 。
2. 輸入所需選項的對應數字。

例如，若要進入 **2 電話簿 - 1 私人 - 4 記憶體使用量**，則可按下  然後依序鍵入選項號碼 **2 1 4**。

退出功能表選項

若要退出此功能表或子功能表，請按下 **返回** 或 。

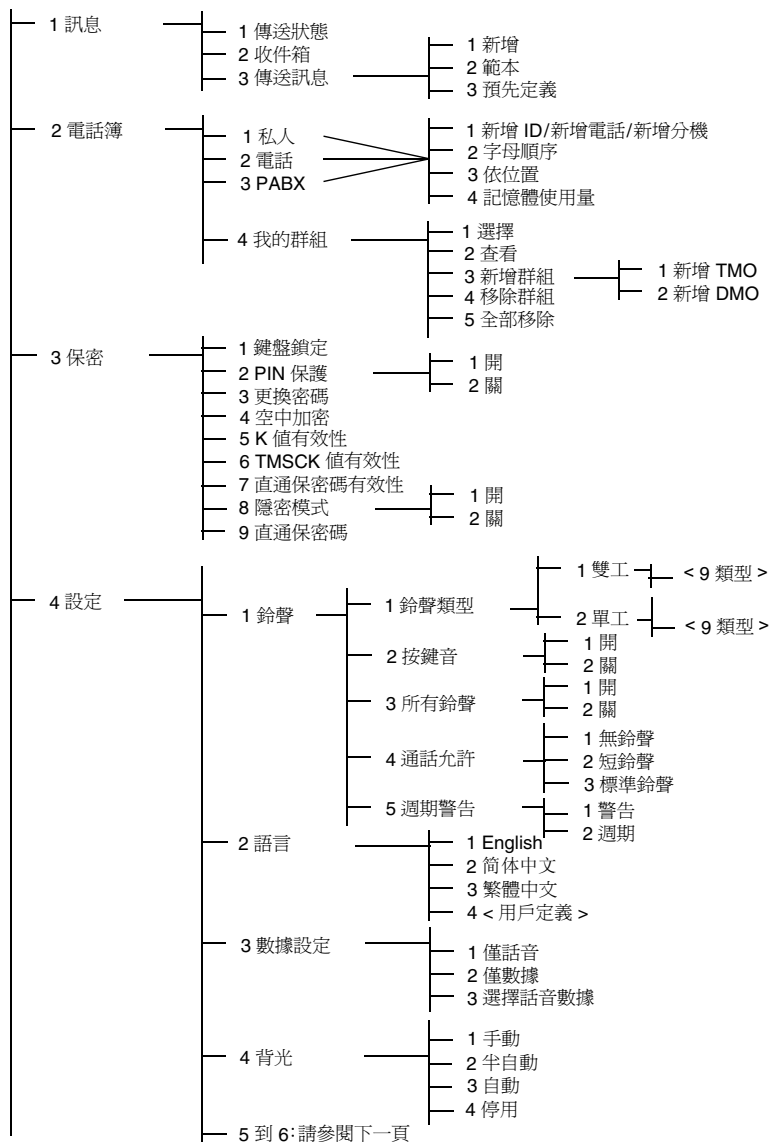
退出功能表

從任意功能表選項按住 **返回**。螢幕會返回進入功能表之前的模式。

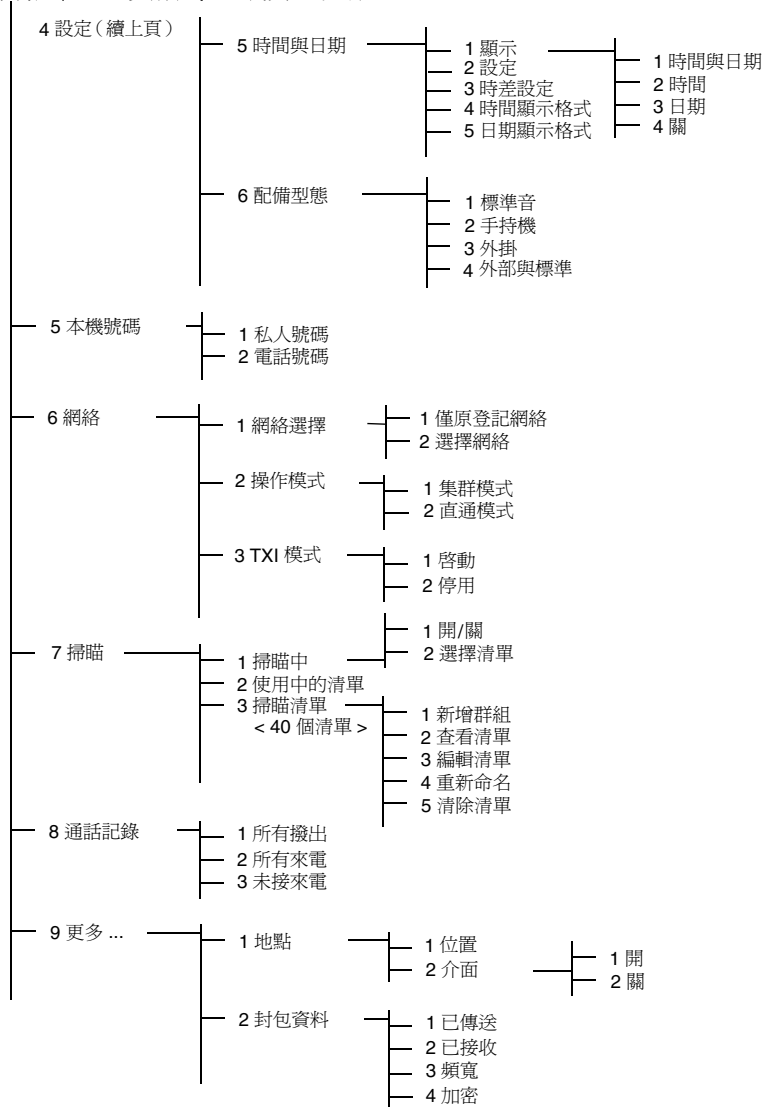
注意

如果您的服務供應商已啟用此功能，當偵測到經過一段預設時間無按鍵時，功能表就會逾時。

功能表選項清單



功能表選項清單 (續上頁)



功能表

注意

有些功能表編號可能和此處列出的不同。因為您的服務供應商可能會啓用/停用某些選項，所以會使實際的功能表索引編號有所出入。

訊息 (Menu 1)

請參閱第 90 頁的「訊息」以取得詳細資訊。

電話簿 (Menu 2)

若要進入電話簿子功能表，請按下 **Menu - 2 電話簿**。

- 此子功能表可讓您新增、搜尋、編輯或清除私人、電話和 PABX 電話簿中的記錄。

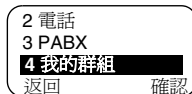
**注意**

更新私人通話電話簿的方式和更新電話通話與 PABX 通話電話簿的方式相同。當使用功能捷徑進入相關功能表時，請確定使用第 66 頁功能表選項清單上的正確編號順序。

注意

如果您的服務供應商已設定此功能，則無法新增或編輯或撥打電話簿中的記錄項目，或撥打不在電話簿中的號碼。您將無法使用新增、編輯和刪除電話簿中連絡人等功能表項目。

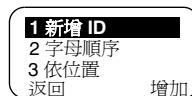
- 選擇、檢視、新增或移除最愛群組。

**更新私人通話電話簿 (Menu 2 1)**

若要進入私人子功能表，按下

Menu - 2 電話簿 - 1 私人。

此子功能表可讓您編輯私人通話電話簿。

**新增號碼 (Menu 2 1 1)**

若要進入子功能表，

按下 **Menu - 2 電話簿 - 1 私人 - 1 新增 ID**。

注意

1 新增 ID 會變更為 **1 新增電話** 或 **1 新增分機**，視您要編輯的電話簿而定。

1. 按下**增加**。MTM800 將會提示您新增項目至現有清單中。此項目包含號碼、姓名和位置。請先輸入號碼和姓名。
2. 按下**確認**以確認輸入。然後選擇此項目在清單中的儲存位置。
3. 第一個可用的空位置（如果有的話）會建議為儲存該項目的預設位置。您可以在位置清單中捲動選擇其他位置，或鍵入位置號碼。如果該位置已使用，則會提示您是否要覆寫儲存在該位置的現有項目。
4. 當成功儲存項目後，螢幕會在數秒內回到新增項目畫面。

依字母順序搜尋電話簿 (Menu 2 1 2) 或依位置 (Menu 2 1 3)

1. 若要進入子功能表，
按下 (Menu) - 2 電話簿 - 1 私人 然後 2 字母順序 或 3 依位置。
2. 按下**尋找**。在依字母順序排列的清單中捲動（或是在預先儲存清單中鍵入您要搜尋的姓名第一個字母）。或者，在依位置排列的清單中捲動（或鍵入位置號碼）。



在找到號碼後，按下 **PTT** 即可開始撥號。

3. 按下**選項**並捲動至您的選擇：
 - **編輯**項目。建議使用原始位置為儲存已編輯項目的預設位置。
若要選擇其他位置，請在位置清單中捲動選擇其他位置，或鍵入位置號碼。如果該位置已使用，則會提示您是否要覆寫儲存在現有位置的項目。
當成功儲存位置後，螢幕會回到清單畫面。
 - **清除**項目。螢幕會回到清單畫面。

記憶體使用量 (Menu 2 1 4)

若要進入子功能表，

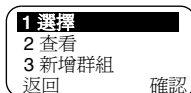
按下 (Menu) - 2 電話簿 - 1 私人 - 4 記憶體使用量。

此畫面會顯示目前還有多少記憶體空間可用來新增項目至電話簿。

我的群組 (Menu 2 4)

在此功能表中，選擇 **2 電話簿 – 4 我的群組**。

此子功能表可讓您編輯您的最愛群組清單。



進入我的群組 (Menu 2 4 1)

1. 在此功能表中，選擇 **2 電話簿 – 4 我的群組 – 1 選擇**。

我的群組會顯示為選取的範圍別名。您現在可以在最愛群組清單中捲動瀏覽。按下**確認**即可選擇。

注意

我的群組範圍會列為最後一個範圍。因此，在我的群組範圍中捲動到最後一個群組之後，再往下捲動就會回到第一個有效範圍。

當選擇「我的群組」而目前的 DM/O/TMO 模式中尚無群組時，則可能會強制您從 DM/O 切換至 TMO 或從 TMO 切換至 DM/O。在此情況下，將會提示您接受模式變更。

檢視我的群組 (Menu 2 4 2)

1. 在此功能表中，選擇 **2 電話簿 – 4 我的群組 – 2 查看**。

2. 在最愛群組清單中捲動。

新增群組至我的群組 (Menu 2 4 3)

1. 在此功能表中，選擇 **2 電話簿 – 4 我的群組 – 3 新增群組**。

2. 選擇以下其中一項：

新增 TMO — 您可以選擇任一 TMO 範圍/群組。

新增 DM/O — 您可以選擇任一 DM/O 範圍/群組。



將群組從我的群組中刪除 (Menu 2 4 4)

1. 在此功能表中，選擇 **2 電話簿 – 4 我的群組 – 4 移除群組**。

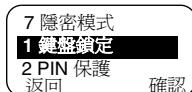
2. 選擇您要移除的群組。在「移除？」畫面中，選擇**是**以確認移除。

將所有群組從我的群組中刪除 (Menu 2 4 5)

1. 在此功能表中，選擇 **2 電話簿 – 4 我的群組 – 5 全部移除**。
2. 在「**移除?**」提示畫面中，選擇**是**以確認移除。

保密 (Menu 3)

若要進入保密子功能表，請選擇 **3 保密**。




將鍵盤鎖定/解鎖 (Menu 3 1)

為防止不慎按下按鍵：

1. 從功能表，選擇 **1 鍵盤鎖定**。除了**開/關**按鈕以外的所有按鍵均會鎖定。

注意

當鍵盤鎖定時若有來電，您仍可使用 **PTT**、、和**拒絕**。

2. 若要將鍵盤解除鎖定，請按下 **Menu 3 1**。

注意

緊急鍵不會鎖定。進入緊急模式將會解除鎖定所有按鍵。

PIN 保護 (Menu 3 2)

您的服務供應商已設定網路存取保護：

無網路操作存取權限 — 您只能傳送或接聽緊急呼叫。在下次開機時裝置鎖定將會生效。

若要保護網路操作存取：

1. 按下 **Menu – 3 保密 – 2 PIN 保護**。
2. 選擇 **1 開**即可設定保護功能（或 **2 關**以取消保護功能）。
3. 在**密碼?**提示下，輸入 **4 位數密碼**（出廠設定為 **0000**）。為避免 **PIN** 遭洩露，輸入時會顯示星號而非密碼數字。按下**確認**。螢幕會顯示下列其中一個訊息：

本機已被鎖 — 您輸入正確的密碼。螢幕會返回保密子功能表，並顯示作用中的設定：**1 開**。

本機已解鎖 — 您輸入正確的密碼。螢幕會返回保密子功能表，並顯示作用中的設定：**2 關**。

若要在開機後將 **MTM800** 解除鎖定，請在出現提示時輸入密碼。**MTM800** 會進入預設的首頁畫面。

如果您輸入錯誤的密碼，將會出現下列訊息：

輸入錯誤的密碼 — 提示您重試。在連續 **3** 次輸入失敗後，**MTM800** 將會被封鎖。

如何將 **MTM800 解除封鎖**

螢幕會顯示「**本機已封鎖**」。當 **MTM800** 已封鎖時，您就無法傳送或接聽通話。您只能輸入密碼或是將 **MTM800** 關機。

若要將 **MTM800** 解除封鎖，請輸入 **PUK**（個人解鎖金鑰）。**PUK** 為 **8** 位數主密碼，可向服務供應商索取。

在成功輸入 **PUK** 後，將會提示您更換您忘記的 **PIN** 密碼。

在**新密碼？**提示下，輸入 **4** 位數密碼，並重複此密碼以確認。如果密碼不符，將會提示您再次輸入直到新密碼已被接受。

更換密碼 (Menu 3 3)

注意 標準出廠鎖定密碼是「**0000**」。

若要變更 **PIN** 密碼：

1. 捲動至 **3 更換密碼**，然後按下**確認**。
2. 在**舊密碼？**提示下，輸入 **4** 位數密碼。
 - 如果在驗證時舊密碼不符，螢幕會顯示「**輸入錯誤密碼**」訊息，並回到保密子功能表。
 - 如果輸入的密碼符合舊密碼，螢幕會提示您輸入新的 **4** 位數密碼並重複輸入此密碼以確認。如果確認密碼與新密碼不符，螢幕會提示您重新輸入新密碼。
3. 在接受新密碼後，螢幕會返回保密子功能表。

空中加密啓動/關閉 (Menu 3 4)

若要進入子功能表，請按下 **Menu** - **3 保密** - **4 空中加密**。

此子功能表可讓您檢視空中加密啓動/關閉狀態。

通話加密可爲您和系統之間提供服務保密。

如果加密已啓用而您接收到未加密的通話，MTM800 將會顯示「直通（無保密）」訊息。

注意

您無法從功能表手動停用空中加密（如果已啓用）。此功能表項目僅會指出當時空中加密是否已啓用。


注意

空中加密功能是否啓用僅能由您的服務供應商決定。

空中加密金鑰刪除

請洽詢您的服務供應商以瞭解對講機是否隨附空中介面加密金鑰。

您可使用鍵盤依序進行以下輸入，將空中介面加密金鑰從對講機刪除：****00##**

	小心	使用此功能將會停用對講機，而必須由您的服務供應商將它重新啓用。
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K 值有效性 (Menu 3 5)

在功能表中，選擇 **3 保密** - **5 K 值有效性**。

K（金鑰）是基礎設施在系統中用來驗證 MTM800 的秘密金鑰。它是驗證的一部分，可爲您的 MTM800 和系統之間提供服務保密。

若要驗證 **K** 值的有效性，請按下**確認**。螢幕會顯示下列其中一個訊息：

K 值有效 — 基礎設施可驗證您的 MTM800。

K 值無效 — 基礎設施無法驗證您的 MTM800。請洽詢您的服務供應商以還原您 MTM800 的 **K** 值。

TMSCK 值有效性？ (Menu 3 6)

在功能表中，選擇 **3 保密 – 6 TMSCK 值有效性？**。

SCK（靜態加密金鑰）是基礎設施在系統中用來加密通話和資料的秘密金鑰。空中介面加密服務可為您的 MTM800 和系統之間提供服務保密。您的 MTM800 在交運時應已設定一組 SCK。

若要驗證 TMO 的 SCK 值是否有效，請按下**確認**。螢幕會顯示下列其中一個訊息：

TMSCK 值有效 — 您的 MTM800 可在 TMO 中使用加密操作。

TMSCK 值無效 — 您的 MTM800 無法在 TMO 中使用加密操作。請洽詢您的服務供應商以還原您 MTM800 的 SCK 值。

直通保密碼有效性？ (Menu 3 7)

在功能表中，選擇 **3 保密 – 7 直通保密碼有效性？**。

SCK（靜態加密金鑰）是基礎設施在系統中用來加密通話和資料的秘密金鑰。空中介面加密服務可為您的 MTM800 和系統之間提供服務保密。您的 MTM800 在交運時應已設定一組 SCK。

若要驗證 DMO 的 SCK 值是否有效，請按下**確認**。螢幕會顯示下列其中一個訊息：

直通保密碼有效 — 您的 MTM800 可在 DMO 中使用加密操作。

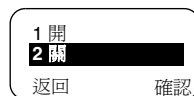
直通保密碼已失效 — 您的 MTM800 無法在 DMO 中使用加密操作。請洽詢您的服務供應商以還原您 MTM800 的 SCK 值。

隱密模式 (Menu 3 8)

從主功能表，選擇 **3 保密 – 8 隱密模式**。

將隱密模式設為啓動

選擇**開**。所有鈴聲都會設為關，而且會立即停用背光和 LED。



注意

音訊會透過外部揚聲器傳出，直到揚聲器關閉。在隱密模式中，建議您使用例如電話聽筒。

將隱密模式設為關閉

選擇**關**。會還原所有鈴聲和背光設定。LED 將會啓用而且會顯示「**隱密模式關**」。

直通保密碼 (Menu 3 9)

在功能表中，選擇**3 保密 – 9 直通保密碼**。

當您選擇此選項時，將會顯示「**密鑰版本**」。

空中介面加密服務可為在直通模式下操作的 MTM800 和其他對講機或對講機群組提供服務保密。

您可變更目前的密鑰（如果您的服務供應商允許變更密鑰的操作）。

若要變更密鑰（如果不在通話中），選擇**下一個**。螢幕會顯示以下訊息：**新密鑰 ...**

- 選擇**是**以變更密鑰。螢幕會出現「**啓動新密鑰**」。
- 選擇**否**即會離開密鑰。螢幕會出現「**密鑰版本**」。

設定 (Menu 4)

若要進入子功能表，按下

Menu – 4 設定 – 確認。

此子功能表可讓您變更 MTM800 組態：按鍵音、語言、鈴聲類型、時間、日期或數據設置。

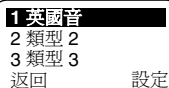
1 鈴聲類型
2 語言
3 數據設定
返回 確認

設定鈴聲類型 (Menu 4 1)

此選項可讓您設定來電的鈴聲類型。您的 MTM800 針對雙工和單工呼叫提供 9 種可選擇鈴聲類型。

1. 按下 **Menu** - 4 設定 - 1 鈴聲類型 - 1 雙工或 2 單工。
2. 捲動至所需類型然後按下**設定**。螢幕會顯示您的新選擇。

您會立即聽到新鈴聲類型播放數秒。如有需要，請轉動音量旋鈕以調整音量。



1 英國音
2 類型 2
3 類型 3
返回 設定

設定螢幕的使用語言 (Menu 4 2)

在設定功能表中，選擇 **2 語言**。

螢幕上會顯示目前使用的語言。您可以使用英文、簡體中文、繁體中文或您服務供應商定義的語言來操作 MTM800。出廠預設設定為英文。

捲動至所需語言然後按下**設定**。螢幕會顯示選取的語言約數秒。



6 < 用戶定義 >
1 English
2 Deutsch
返回 設定

設定數據模式 (Menu 4 3)

您可將 MTM800 連接至外部裝置（例如筆記型電腦或桌上型電腦）。MTM800 將可以與外部裝置之間傳輸和接收資料。外部裝置上必須執行符合 TETRA 標準的應用程式。

在設定功能表中，選擇 **3 數據設置**。

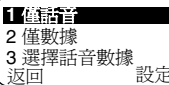
螢幕上會顯示目前的設定：

僅話音 — MTM800 只能接收和傳送語音通話。

僅數據 — 把 MTM800 當成數據機使用。MTM800 將會拒絕接收和傳送語音通話（緊急呼叫除外）、狀態和文字訊息。

選擇話音數據 — 把 MTM800 當成數據機使用，但是語音通話的優先性高於數據通話，所以會中斷數據通話。

捲動至所需設定然後按下**設定**。



1 僅話音
2 僅數據
3 選擇話音數據
返回 設定

在**僅數據**和**選擇話音數據**模式中，當您將 MTM800 連接至外部裝置而且 MTM800 準備進行資料傳輸時，就會顯示「數據已連接」圖示。此資料傳輸/接收圖示指出目前正在進行資料傳輸。

當 MTM800 處於下列其中一種狀態時，MTM800 會結束環場收聽 (AL) 通話，並關閉麥克風：

- 進入不在服務範圍
- 建立外送封包資料通話

若要退出資料模式，請返回 **3 數據設置** 然後選擇**僅話音**。

MTM800 會自動回到語音通訊，但是在「僅數據」模式除外。

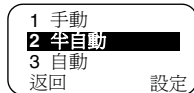
注意

資料服務僅適用於 TMO。在 TXI 模式中會封鎖資料服務。

設定背光 (Menu 4 4)

在設定功能表中，選擇 **4 背光**。

此選項可讓您進行 MTM800 的背光設定 (另請參閱第 24 頁的「調低螢幕亮度」)。



MTM800 提供 4 種背光設定：

手動 (Menu 4 4 1)

按下 即可在 4 種亮度等級之間變更背光亮度。

半自動 (Menu 4 4 2)

按下 即可啟動或關閉背光。按下其他鍵無法啟動背光。背光會持續亮起，直到您按下 將背光關閉，或是直到預設計時器逾時。

自動 (Menu 4 4 3)

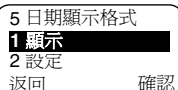
按任意鍵即可啟動背光。背光會持續亮起，直到您按下 將背光關閉，或是直到預設計時器逾時。

停用 (Menu 4 4 4)

停用背光功能。

設定時間與日期功能 (Menu 4 5)

在設定功能表中，選擇 **5 時間與日期**。
此子功能表可讓您控制顯示的時間與日期。



時間與日期顯示設定 (Menu 4 5 1)

在設定功能表中，選擇 **5 時間與日期**，然後選擇 **1 顯示**。
螢幕上會顯示目前的設定：

1. **時間與日期** — MTM800 會顯示時間與日期。
2. **時間** — MTM800 僅會顯示時間。**日期顯示格式**選項會停用。
3. **日期** — MTM800 僅會顯示日期。**時間顯示格式**選項會停用。
4. **關** — MTM800 不會顯示時間或日期。**時間顯示格式**和**日期顯示格式**選項已停用。

捲動至所需設定然後按下**設定**。按下**返回**以退出。

注意

基礎設施會同步時間與日期。當不在基礎設施訊號範圍時，您可手動設定值。

設定時間與日期 (Menu 4 5 2)

若要設定時間及/或日期：

1. 進入**設定**功能表。
2. 選擇**時間與日期**，然後按下**確認**。
3. 選擇**設定**，然後按下**確認**。

使用導覽鍵或是文數字鍵的 **2**（向上）、**8**（向下）、**4**（向左）、**6**（向右）鍵來輸入時間，然後按下**設定**。按下**返回**以退出。

設定時差 (Menu 4 5 3)

若要設定當地時間時差：

1. 進入**設定**功能表。
2. 選擇**時間與日期**，然後按下**確認**。
3. 選擇**時差設定**，然後按下**確認**。

使用導覽鍵或是文數字鍵的 **2**（向上）、**8**（向下）、**4**（向左）、**6**（向右）鍵來輸入時差，然後按下**設定**。按下**返回**以退出。

注意

您可以每 **15 分鐘** 為間隔來調整時差值，最多往前或往後調整 **14 個小時**。

設定時間格式 (Menu 4 5 4)

若要在 24 小時制和 12 小時制之間切換時間顯示格式：

1. 進入**設定**功能表。
2. 選擇**時間與日期**，然後按下**確認**。
3. 選擇**時間顯示格式**，然後按下**確認**。

選擇所需設定，然後按下**設定**。按下**返回**以退出。

設定日期格式 (Menu 4 5 5)

若要在 DD/MM/YY、MM/DD/YY 和 DD-MON-YY 之間切換顯示日期格式：

1. 進入**設定**功能表。
2. 選擇**時間與日期**，然後按下**確認**。
3. 選擇**日期顯示格式**，然後按下**確認**。

選擇所需設定，然後按下**設定**。按下**返回**以退出。

設定鈴聲 (Menu 4 6)

在設定功能表中，選擇 **6 鈴聲**。

此子功能表可讓您啟動/停用按鍵音以及其他用於 MTM800 的鈴聲。

捲動至所需設定然後按下**設定**。

螢幕上會顯示目前的設定。當設為**開**時，MTM800 將會在每次按鍵時發出提示音。當設為**關**時，MTM800 將會關閉鍵盤音。

有關鈴聲的詳細清單，請參閱第 102 頁的「鈴聲」。

1 按鍵音
2 所有鈴聲
3 通話允許
返回 設定

設定按鍵音 (Menu 4 6 1)

若要啟動/停用每次按鍵時發出的按鍵音：

1. 進入**設定**功能表。
2. 選擇**鈴聲**，然後選擇**按鍵音**，然後按下**確認**。
3. 使用導覽鍵在設定之間捲動。
4. 選擇所需設定，按下**設定**，或按下**返回**即可退出。

設定所有鈴聲 (Menu 4 6 2)

若要啟動/停用所有鈴聲（按鍵音和 MTM800 使用的其他動作提示音）：

1. 進入**設定**功能表。
2. 選擇**鈴聲**，然後選擇**所有鈴聲**，然後按下**確認**。
3. 使用導覽鍵在設定之間捲動。
4. 選擇所需設定，按下**設定**，或按下**返回**即可退出。

設定通話允許音 (Menu 4 6 3)

您有 3 種鈴聲設定：

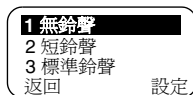
無鈴聲 — 按下 **PTT** 時不會發出提示音

短鈴聲 — 按下 **PTT** 時會發出短促的提示音

標準鈴聲 — 按下 **PTT** 時會發出出廠設定的提示音

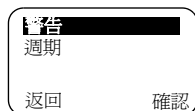
若要變更您的通話允許音設定：

1. 進入**設定**功能表。
2. 選擇**鈴聲**，然後選擇**通話允許**，然後按下**確認**。
3. 使用導覽鍵在設定之間捲動。
4. 選擇所需設定，按下**設定**，或按下**返回**即可退出。



設定週期警告 (Menu 4 6 4)

週期警告會提示未接來電和未讀訊息。每次提示時，就會發出未讀訊息音並亮起琥珀色 LED。此功能可由使用者停用 / 啓用。



1. 進入**設置**功能表。
2. 選擇**鈴聲**，然後選擇**週期警告**，再按下**確認**。
3. 選擇**警告**，然後選擇所需設定，再按下**設定**以選擇，或按下**返回**以退出。

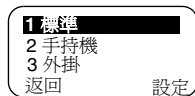
使用者也可以設定發出警告的間隔時間。

1. 進入**設置**功能表。
2. 選擇**鈴聲**，然後選擇**週期警告**，再按下**確認**。
選擇**週期**，然後選擇所需設定，再按下**設定**以選擇，或按下**返回**以退出。

設定配件 (Menu 4 7)

在設定功能表，選擇 **7 配備型態**。

您可以選擇以下其中一個選項：



標準 — 如果已連接掌上型麥克風和外部揚聲器，請選擇此選項。

手持機 — 如果已連接電話聽筒，請選擇此選項。

外掛 — 如果已連接外部麥克風和外部揚聲器，請選擇此選項。

外部與標準 — 如果要將外部麥克風設為預設（除非按下 PTT），則選擇此選項。

注意

MS/CPS 使用者必須設定配件才能使用它們。

本機號碼 (Menu 5)

使用此功能即可隨時檢視您的私人或電話號碼。

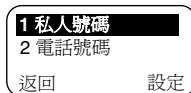
檢視私人或電話號碼 (Menu 5 1 或 Menu 5 2)

若要進入子功能表，
按下 **Menu** - **5 本機號碼** 然後選擇 **1 私人號碼** 或 **2 電話號碼**。

您無法修改顯示的私人號碼。

若要修改顯示的電話號碼，請按下 **設定**。

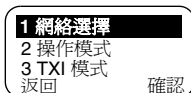
新電話號碼不會修改系統中的 MTM800 號碼。



網絡 (Menu 6)

若要進入子功能表，請按下 **Menu** - **6 網絡**。

此子功能表可讓您選擇 MTM800 要註冊的網絡，以及其所操作模式。



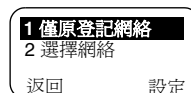
選擇您的網絡 (Menu 6 1)

此子功能表可讓您選擇對講機要註冊的網絡。

選擇僅原登記網絡註冊 (Menu 6 1 1)

若要進入子功能表，按下
Menu - **6 網絡** - **1 網絡選擇** - **1 僅原登記網絡**。

選擇此選項可讓 MTM800 僅識別允許網路清單上的第一個網路並向該網路註冊。



使用選擇網絡選項註冊 (Menu 6 1 2)

若要進入子功能表，
按下 **Menu** - **6 網絡** - **1 網絡選擇** - **2 選擇網絡**。

如果您的服務供應商已設定此功能，此選項可讓您從允許網路清單手動選擇 MTM800 要註冊的網路。

將顯示允許網路清單。

捲動至所需網路然後按下**設定**。

螢幕會顯示「**XXX 已選取**」。XXX 代表選取的網路名稱。

在經過數秒後，螢幕就會回到網路子功能表。

注意

由您的服務供應商來確保允許您的對講機身份向清單中的其他網路註冊。某些通話群組可能無法用於其他網路。

設定操作模式 (**Menu** 6 2)

若要進入子功能表，

按下 **Menu** - 6 網路 - 2 操作模式。

此子功能表可讓您選擇 MTM800 的操作模式。

若要設定您的操作模式：

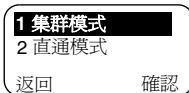
- 選擇 **2 直通模式** 或 **1 集群模式**，然後按下**確認**。

注意

如果對講機處於傳輸抑制模式，則無法從直通模式切換至集群模式。

注意

若要快速變更操作模式，您可使用其中一個可編程鍵（如果您的服務供應商已設定）。



設定傳輸抑制 (TXI) 模式 (**Menu** 6 3)

若要進入子功能表，

按下 **Menu** - 6 網路 - 3 TXI 模式。

在進入禁止進行傳輸的地區（例如醫院或可能發生爆炸的環境）之前，請務必設定此模式。

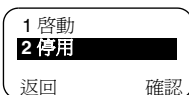
若要啟動 TXI 模式：

- 選擇 **1 啟動**，然後按下**確認**。

對講機將會發出「傳輸抑制」提示音。螢幕會在通話群組名稱和 **TXI 模式** 訊息之間閃爍，然後會持續亮起橘色 LED，表示已啟動 TXI 模式。

注意

在 TXI 模式中，將會封鎖所有會造成傳輸的功能表選項，而且無法變更通話群組。



若要停用 TXI 模式，例如在離開禁止傳輸的地方之後：

- 選擇 **2 停用**，然後按下**確認**。

對講機會發出「傳輸抑制」提示音並回到群組模式或直通模式（如果上次選取的模式為直通模式）。

掃瞄 (Menu 7)

若要進入子功能表，請按下 **Menu - 7 掃瞄**。

這個子功能表可讓您啟動/停用掃瞄，檢視作用中的掃瞄清單以及編輯掃瞄清單。

注意

在 TXI 模式中無法啟用或停用通話群組掃瞄。

設定通話群組掃瞄 (Menu 7 1)

若要進入子功能表，

按下 **Menu - 7 掃瞄 - 1 掃瞄中**。

此子功能表可讓您啟動/停用掃瞄 MTM800 中預先定義的通話群組清單。當掃瞄功能啟動時，MTM800 將會加入來自掃瞄清單中定義的通話群組之通話群組呼叫。

捲動至所需設定然後按下**確定**。如果它已設為**關**，畫面將會顯示以下狀態：

當設為**開**，畫面將會顯示以下狀態：

- 上次選取的掃瞄清單，或
- 掃瞄清單中的第一個清單。

如果顯示的不是所需的清單，請在掃瞄清單中捲動，然後按下**設定**。

若要變更選擇：

- 選擇 **Menu - 7 掃瞄 - 1 掃瞄中 - 1 選擇清單**，或者
- 進入群組模式然後選擇**選項 - 掃瞄 - 1 選擇清單**。

1 掃瞄中
2 使用中的清單
3 掃瞄清單
返回 確認

1 開
2 選擇清單
返回 確認

1 關
2 選擇清單
返回 確認

掃瞄清單:
掃瞄清單 1
返回 設定

會出現訊息指出所有掃描清單都是空的。

選擇 **3 掃描清單** 以加入掃描清單。請參閱第 85 頁。

當設為**關**時，掃描功能會停用。

在完成設定後，螢幕會回到掃描子功能表或群組模式。

若要檢視使用中的掃描清單及其通話群組狀態，請參閱下節。

檢視使用中的掃描清單 (Menu 7 2)

若要進入子功能表，

按下 **Menu - 7 掃描 - 2 使用中的清單**。

此子功能表可讓您檢視使用中的清單。

螢幕會顯示下列其中一個狀態：

- 有一個已選取但不在使用中的清單。掃描已關閉。
- 沒有已選取的使用中清單。掃描已關閉。
- 有一個已選取且已在使用中的清單。掃描功能已啟動。

若要檢視通話群組狀態（使用中或不在使用中）優先性（如果已預先設定），按下**查看**，然後在通話群組之間捲動。

使用中的清單：

掃描清單 1

返回

查看

編輯掃描清單 (Menu 7 3)

若要進入子功能表，請按下 **Menu - 7 掃描 - 3 掃描清單**。

此畫面可讓您在掃描清單之間捲動，依清單來檢視使用的通話群組號碼。

若要編輯/檢視掃描清單的內容，請按下**選項**並捲動至您的選擇。

按下**確認**即可選擇以下其中一個選項：

1. **新增**通話群組至選取的掃描清單。每個新增的通話群組（包括一個最愛群組）都有一個專屬範圍、名稱或號碼以及優先性（如果已預先設定）。

- 若要選擇一個範圍，請在範圍清單中捲動。如果某一範圍中的所有通話群組均已在選取掃描清單中，則該範圍將不會顯示在此範圍清單中。按下**確認**即可選擇範圍。

掃描清單 1

已使用: 4

可用: 36

返回

選項

5 清除清單

1 **新增群組**

2 查看清單

返回

確認

- 若要選擇通話群組，請從選取範圍的通話群組清單中捲動瀏覽。此清單會顯示未列於選取掃描清單中的通話群組。按下**確認**。
- 若要設定群組的優先性，請在優先性清單中捲動瀏覽：高、中或低。

來自高優先性通話群組的來電將會中斷優先性較低的進行中通話。

來自中/低優先性通話群組的來電將不會中斷進行中的通話。

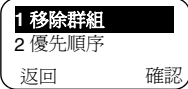
2. 使用捲動方式**查看**使用中掃描清單的內容（範圍、通話群組和優先性（如果已預先設定））。



範圍 1
通話群組 1
中優先性
返回

3. **編輯**掃描清單通話群組。捲動至所需的選擇然後按下**選項**。捲動至以下其中一個選項：

- 若要將通話群組從選取的掃描清單中**移除**，選擇 **1 移除群組**然後按下**確認**。將會出現提示您移除選取通話群組。經過數秒後，螢幕將會顯示選取掃描清單中的下列通話群組。
- 若要變更通話群組**優先性**，選擇 **2 優先順序**然後按下**確認**。捲動至所需的優先性然後按下**確認**。在數秒後，螢幕會顯示選取通話群組的新設定。



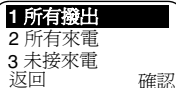
1 移除群組
2 優先順序
返回 確認

4. 若要**重新命名**使用中的掃描清單，請輸入新名稱（別名），然後按下**確認**。螢幕上會顯示新設定。
5. 若要將所有通話群組從選取的掃描清單中**清除**，請按下**是**。螢幕會提示您將所有通話群組從選取的掃描清單移除。在數秒後，螢幕會顯示選取掃描清單的新設定。

通話記錄 (Menu 8)

您可檢視所有通話記錄：

- 所有撥出
- 所有來電 — 您已接聽的來電
- 未接來電 — MTM800 已接到但未接聽的來電或拒絕的來電。



每個通話清單最多可包含所有模式（電話、PABX 或私人）的 10 組號碼，而上次的通話則會列於清單的最上方。如有需要，會刪除舊通話記錄以儲存新通話記錄。撥打多次的號碼只會列在清單中一次。

在接收到未接來電通知時，MTM800 將會顯示未接來電清單。在通話中若接到來電，該號碼會列於未接來電清單。在通話結束後，將會自動出現未接來電清單。

1. 從功能表，選擇 **8 通話記錄**。
2. 捲動至所需記錄然後按下**確認**。
3. 在通話清單中捲動瀏覽。選擇**清除**即可將記錄項目從清單中移除。如有需要，可進入相關內容功能表將不含姓名的號碼儲存在電話簿。請參閱第 68 頁的「電話簿」。



4. 您可以透過通話記錄中的項目撥打電話、PABX 或私人通話，視您在清單中選取的項目而定。

注意

如果您的服務供應商已限制存取電話簿，則可能無法撥打不在電話簿中的號碼。

5. 在結束通話後，MTM800 將會回到所有來電/未接來電/所有撥出清單，其中顯示號碼並讓您刪除號碼或將號碼儲存在電話簿中。

地點定位 (Menu 9 1)

請參閱第 61 頁的「GPS 定位服務」以取得詳細資訊。

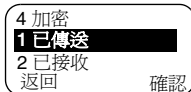
封包資料 (Menu 9 2)

此子功能表可顯示與封包資料連線相關的統計數據。如果您的服務供應商已啟用多槽封包資料服務 (Multi Slot Packet Data Service)，則會顯示下列資訊：

- 已傳送的資料量，
- 已接收的資料量，
- 資料階段作業的頻寬，
- 資料加密狀態。

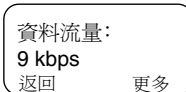
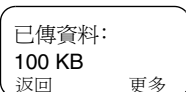
注意

資料服務僅適用於 TMO。資料選項必須設為選擇話音數據或僅數據。(請參閱第 76 頁的「設定數據模式」)。



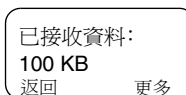
檢視已傳送的資料統計數據 (Menu 9 2 1)

1. 在封包資料子功能表中選擇 **1 已傳送**。
2. 將會顯示自目前封包資料啟動後已傳送的 KB 數。
3. 按下**更多**。資料流量會顯示在第二個畫面中：
9 kbps (例如) — 啟動的封包資料階段作業。
無 — 待命的封包資料階段作業。



檢視已接收的資料統計數據 (Menu 9 2 2)

1. 在封包資料子功能表中選擇 **2 已接收**。
2. 將會顯示自目前封包資料啟動後已接收的 KB 數。



3. 按下**更多**。資料流量會顯示在第二個畫面中：
9 kbps（例如）— 啟動的封包資料階段作業。
無 — 待命的封包資料階段作業。

資料流量：
9 kbps
返回 更多

檢視頻寬狀態 (Menu 9 2 3)

頻寬百分比代表在資料階段作業期間分配的時槽（「信道」）數。

1. 在封包資料子功能表中選擇 **3 頻寬**。

2. 顯示頻寬百分比：

75%（例如）— 啟動的封包資料階段作業。

頻寬：
75%
返回

無 — 待命的封包資料階段作業。

注意

您的服務供應商已將可分配的時槽個數上限設定為 1、2、3 或 4。頻寬百分比使用百分比的形式表示可能的時槽個數（1、2、3 或 4）。

範例：

如果可能分配的時槽為 4 個中的 2 個，則會顯示 50%。

如果可能分配的時槽為 4 個中的 4 個，則會顯示 100%。

如果可能分配的時槽為 1 個中的 1 個，則會顯示 100%。

檢視加密狀態 (Menu 9 2 4)

1. 在封包資料子功能表中選擇 **4 加密**。
2. 將會顯示進行中封包資料階段作業的加密狀態：

- 加密
- 未加密（無加密）

封包資料
加密
返回

訊息

一般說明

訊息功能可讓您

- 傳送狀態訊息。
- 傳送簡訊（任意文字或依據使用者定義或預先定義的範本），以及
- 接收文字訊息。

狀態是一個數字，對應於您群組可識別的清單中預先設定的訊息。文字訊息是最多包含 **140** 個字元的簡短文字。

注意

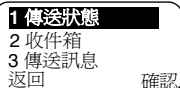
如果您的服務供應商已設定此功能，則只能將訊息傳送至儲存在電話簿中的私人號碼。

進入訊息子功能表

若要進入子功能表，請按下 **Menu** - **1 訊息**。

此子功能表可讓您

- 傳送狀態訊息，
- 讀取文字訊息，以及
- 傳送文字訊息。



捲動至您的選擇然後按下**確認**以進入下個螢幕。

注意

當 **MTM800** 在訊息子功能表中仍可接聽來電。


注意

- 您無法在 **TXI** 模式中傳送狀態或文字訊息。
- 在 **DMO** 期間，您無法在通話中傳送狀態或文字訊息。

當收到新訊息時，螢幕上會閃爍  圖示（當您進入收件箱時此圖示會停止閃爍）。

注意

當對講機在通話中收到新訊息時，**MTM800** 將會發出「收到新郵件」提示音（如果您的服務供應商已設定此功能）。

MTM800 將會自動進入收件箱，而且  圖示將會停止閃爍。


傳送狀態訊息 (Menu 1 1)

1. 切換至您想要傳送狀態訊息的通話群組。
2. 從任意模式中按下**狀態**，或是選擇
Menu - 1 訊息 - 1 傳送狀態 - 確認。
3. 在本例中，**午餐**是上次傳送的狀態訊息。若要傳送不同的狀態訊息，請在預先定義的狀態清單中選擇，或鍵入狀態編號。若要停止捲動，請按下**取消**。
狀態訊息會自動顯示在螢幕上。

午餐
6
返回

注意

此外還可從狀態子功能表，在使用者狀態範圍中鍵入一組 5 位數的狀態號碼。

4. 按下 **PTT** 或 ，或相關單鍵數字鍵即可傳送該狀態訊息。如果您的服務供應商已啟用目標狀態功能，在狀態傳送畫面中將會額外出現一個**傳送至**快捷鍵。按下**傳送至**即可選擇要將您的狀態傳送為私人通訊或群組呼叫。

若要輸入私人通話的位址，您可鍵入收件人號碼或在號碼清單中捲動，或按下 **abc** 以搜尋電話簿。若要傳送為群組呼叫，則可選擇附加範圍中的通話群組，然後按下 **PTT** 以傳送狀態訊息。

螢幕會顯示下列一個傳送報告：

狀態已傳送 — 螢幕會退出狀態模式。

狀態失敗 — 螢幕會在幾秒內回到上個畫面。

注意

請等到顯示傳送報告後再傳送新的狀態。

如果您從忙碌通話群組進入狀態功能表，將會暫停音訊傳輸以便傳送您的狀態訊息。

注意

如果接收到緊急群組呼叫，對講機會立即加入該新緊急呼叫。

注意

如果您的服務供應商已設定此功能，則只能將狀態訊息傳送給電話簿中的私人號碼。

使用收件箱 (Menu 1 2)

收件箱清單包含新的或舊的已接收文字訊息。收件箱清單最多可容納 20 則訊息。

若要進入收件箱，按下 **Menu** – 1 訊息 – 2 收件箱。

清單的狀態將會顯示數秒：

- 收到新訊息，且清單已滿 — 按下**確認**以確認。
- 收到新訊息 — 按下任意鍵或等候數秒。螢幕會顯示收到的訊息。
- 沒有新或舊的短訊息 — 畫面將會在數秒內返回上一個畫面。

新訊息



螢幕會顯示收到的訊息：其號碼、狀態（新/舊）、寄件人以及第一行文字訊息。

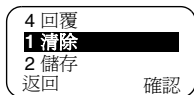
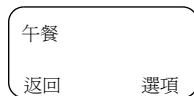
按下以下其中一個按鍵：

- 按下**導覽**鍵即可在文字訊息之間捲動。
- 選擇**讀取**即可讀取完整訊息。讀取現有文字訊息後，其訊息狀態將會從新變更為舊。
- 按下**導覽**鍵即可在超過一行的訊息內容中捲動（結尾會出現箭頭，表示下頁中有接續的內容）。

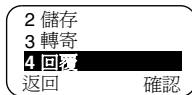
在讀取訊息後，您可選擇**選項**，然後選擇以下其中一個選項：

- 捲動至**清除**然後按下**確認**即可清除訊息。螢幕會顯示下則訊息（如果有的話）或訊息子功能表。
- 選擇**儲存**然後按下**確認**即可將訊息當成範本儲存在範本清單中。
- 捲動至**轉寄**，然後按下**確認**即可進入編輯模式。舊訊息內文會當成預設訊息。

按下 **PTT** 或  即可撥號。輸入收件人的號碼然後按下 **PTT** 或  即可傳送。



- 捲動至**回覆**，然後按下**確認**即可進入編輯模式。舊訊息內文會當成預設訊息，而訊息發送方則為收件人。按下 **PTT** 或



即可撥號給訊息發送方。

按下**返回**即可回到上一個畫面。

已讀的訊息會保留在收件箱中。

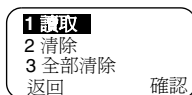
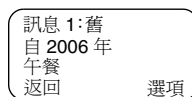
新文字訊息將會立即顯示。如果此為未讀取訊息，則重新進入收件箱可檢視最新訊息。

處理舊訊息

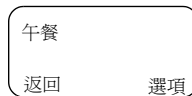
捲動至其中一則舊文字訊息。

按下**選項**並捲動至您的選擇：

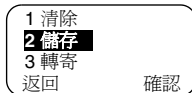
- 捲動至**讀取**然後按下**確認**，即可顯示選取的舊訊息。



在讀取訊息後，您可選擇**選項**，然後選擇以下其中一個選項：

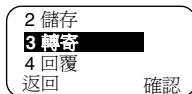


- 捲動至**清除**然後按下**確認**即可清除訊息。當螢幕顯示「**訊息已清除**」時，表示已將目前訊息從收件箱中刪除。螢幕會顯示下則訊息（如果有的話）或訊息子功能表。



- 選擇**儲存**然後按下**確認**即可將訊息當成範本儲存在範本清單中。

- 捲動至**轉寄**，然後按下**確認**即可進入編輯模式。舊訊息內文會當成預設訊息，而預設的訊息發送方則為收件人。按下 **PTT** 或



即可撥號。

輸入收件人的號碼然後按下 **PTT** 或

- 捲動至**回覆**，然後按下**確認**即可進入編輯模式。舊訊息

內文會當成預設訊息，而預設的訊息發送方則為收件人。

按下 **PTT** 或 ，即可撥號給訊息發送方。

2. 捲動至**清除**然後按下**確認**即可清除訊息。


3. 捲動至**全部清除**然後按下**確認**即可會顯示下列訊息：

- 選擇**是**以清除收件箱中的所有訊息。
- 按下**否**即可回到上一個畫面。

清除收件箱？

否 是

接收文字訊息

當接收到新訊息時，螢幕上會閃爍  圖示。當您進入收件箱時，此圖示就會停止閃爍。

如果 **MTM800** 無進行中的活動，則會自動進入收件箱。

注意

有關訊息提示的資訊，請參閱鈴聲功能表中選項中的設定（第 79 頁）。

注意

如果您的服務供應商已啓用 **PTT** 電話回覆功能，則按下 **PTT** 將會顯示一個清單，其中列出訊息發送方（別名或號碼）以及該則文字訊息中找到的**所有**號碼。然後就可以從中選擇要撥打的人。否則，**PTT** 將會連接至目前選取的通話群組。

注意

如果您的服務供應商已設定此功能，則只能回電給儲存在電話簿中的號碼。

傳送文字訊息 (1 3)

此功能可讓您傳送新訊息、傳送使用用戶定義範本建立的訊息，或傳送使用預先定義範本建立的訊息。

預先定義的範本會由您的服務供應商設定在 **MTM800** 中。用戶定義的範本則是指您選擇儲存在 **MTM800** 記憶體中的收件箱訊息或送件箱訊息。用戶定義範本也可以設定在 **MTM800** 中。

您在傳送訊息之前可以先進行訊息編輯。當對講機待機或在群組/緊急/廣播呼叫（如果已設定）期間，您可以傳送訊息。

如果已設定此功能，則當您加入群組/緊急/廣播呼叫或當呼叫結束時，會出現訊息提示。

注意

在 DMO 中，會使用附加至目前通話群組的頻率傳送文字訊息。在傳送訊息之前，確定您已選取所需的通話群組。有關選擇群組的詳細資訊，請參閱第 27 頁的「選擇通話群組」。

在文字訊息編輯之前或編輯期間接收群組/緊急/廣播呼叫

在接聽來電時您可以在通話中開始編輯訊息。

或者您可以開始編輯訊息，在編輯訊息期間接聽來電。

在編輯訊息期間若要接聽來電，請按下 **PTT**。

在群組呼叫期間傳送文字訊息（如果已設定）

按下 。可能會出現以下一種情況：

- 如果在開始編輯訊息之前進行呼叫 — 對講機會離開呼叫並傳送訊息。如果該呼叫仍在進行中，則對講機將會重新加入呼叫。
- 如果在開始編輯訊息之後進行呼叫 — 對講機會離開呼叫並傳送訊息。對講機將會回到編輯模式。
- 如果在開始編輯訊息之前或之後進行呼叫 — 對講機將會在呼叫中傳送訊息。

在緊急/廣播呼叫（如果已設定）期間傳送文字訊息

按下 。可能會出現以下一種情況：

- 如果在開始編輯訊息之前進行呼叫。對講機會離開呼叫並傳送訊息。對講機將會回到編輯模式。
- 如果在開始編輯訊息之後進行呼叫。對講機將會在呼叫中傳送訊息。

在文字訊息編輯期間接收私人/電話/PABX 通話

將會自動中斷訊息編輯，並在通話後回到訊息編輯。

進入送件箱

按下 **Menu** – **1 訊息** – **3 傳送訊息**。

將會出現傳送訊息子功能表。

1 新增
2 範本
3 預先定義
返回 確認

編輯、儲存和傳送新訊息

1. 捲動至 **1 新增**，然後按下**確認**。將會開啓空白畫面。您可以使用鍵盤鍵入/編輯訊息。請參閱第 14 頁的「編輯文字」。

2. 按下**選項**並捲動至您的選擇：


- 捲動至**傳送**，然後按下**確認**。

此為新編輯
的訊息
清除 選項

- 如果您的服務供應商已設定此功能，則您可以選擇傳送訊息給私人號碼或通話群組。

1 私人
2 群組
返回 確認

- 否則請在電話簿中捲動選擇郵件收件人（請參閱第 69 頁）或直接輸入收件人。

按下**傳送**或 **PTT** 或  以傳送訊息。螢幕會顯示下列一個傳送報告：

訊息已傳送 — 指出訊息已成功傳送並已接收。

訊息失敗 — 對方未收到訊息。

- 捲動至**儲存**並按下**確認**即可將您的訊息加入範本清單（指定給該訊息的數字為最小可用的數字 – 在本例中是範本號碼 3）。

儲存在
範本 3

注意

如果您的服務供應商提供此功能，就可以從忙碌通話群組編寫和傳送文字訊息。當編輯新訊息或範本時將會暫停群組音效。在此期間，您可接收新的緊急呼叫。在接收到緊急呼叫時將會中止訊息編輯。如果接收到新的私人/電話通話，則會在通話結束後回到訊息編輯。

傳送、編輯和清除用戶定義範本

用戶定義的郵件範本是指已接收、新建、傳送或設定並儲存在範本清單中的訊息，可以用來傳送訊息。

1. 捲動至 **2 範本**，然後按下**確認**。範本清單中的第一個範本會出現。

注意

範本編號不一定要連續。

2. 使用導覽鍵在範本清單中捲動，然後選擇所需的範本。
3. 按下**選項**並捲動至您的選擇：
 - 捲動至**傳送**，然後按下**確認**。
 - 請在電話簿中捲動選擇郵件收件人（請參閱第 69 頁）或直接輸入收件人。
 - 按下 **PTT** 以傳送訊息。
螢幕會顯示下列一個傳送報告：
訊息已傳送 — 指出訊息已成功傳送並已接收。
訊息失敗 — 對方未收到訊息。
 - 捲動至**編輯**並按下**確認**即可依需要編輯範本中的訊息。
 - 捲動至**清除**然後按下**確認**即可清除目前的範本。

傳送和編輯預先定義範本

預先定義的郵件範本是指由您服務供應商在 MTM800 中設定的範本。您可以對預先定義範本進行有限的編輯操作並傳送它，但是您無法儲存編輯過的範本或將它從範本清單中刪除。

1. 捲動至 **3 預先定義**，然後按下**確認**。
將會顯示預先定義範本清單中的第一個範本（如果無預先定義範本，則會顯示「無預先定義」訊息）。
2. 使用導覽鍵在範本清單中捲動，然後選擇所需的範本（在本範例中，會顯示註冊訊息）。

註冊：

abc 27

返回

編輯

注意

預先定義的訊息只能從編輯畫面傳送。



3. 按下**編輯**。此訊息會出現在預先定義的訊息編輯器中。

註冊:
abc 27

清除


返回

4. 輸入您的訊息。

- 若要將游標向前移動 – 按下 。
- 若要將游標向後移動 – 按下 。
- 按下**清除**即可將游標左側的第一個字元刪除。

注意

您的服務供應商在設定時也會定義預先定義訊息位址，您無法變更它。

5. 按下 PTT 或 ，或相關單鍵數字鍵即可傳送訊息。螢幕會顯示下列一個傳送報告：

訊息已傳送 — 指出訊息已成功傳送並已接收。

訊息失敗 — 對方未收到訊息。

在傳送訊息後，MTM800 將會回到預先定義範本選擇畫面。

注意

當 MTM800 在等待訊息確認時，您將無法傳送下一則訊息。

疑難排解




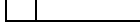
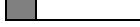



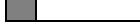


當 MTM800 閃爍顯示下列訊息時：















訊息	訊息說明
..... 模式清單是空的	未在捲動清單中設定項目。請鍵入項目。
...-已接收	接收到呼叫但未回復聽或已拒絕。
附件失敗	對講機無法附加通話群組。請嘗試其他通話群組。
認證失敗	對講機無法向認證系統註冊（例如，認證金鑰不正確或對講機已停用認證）。
通話已取消	頻道故障。請稍後重試。
通話結束	頻道故障。請稍後重試。 撥打的對講機已結束通話。
通話已阻塞	頻道已優先使用。
緊急麥克風結束	緊急麥克風計時器會自動逾時，或用戶已按下 PTT 按鈕以取消緊急麥克風功能。
緊急麥克風啓動	緊急麥克風功能已啓動，對講機會自動傳輸免持緊急音訊。
空白項目	您撥打的記憶位置號碼不存在，或此號碼存在但是此群組無法選取。
裝置故障錯誤 ...	自我測試已失敗。已偵測到對講機發生操作故障。請記下錯誤編號。將對講機關機並連絡客服。
群組已存在	您嘗試新增的群組已在我的群組範圍中。
群組模式無群組	檢查選取的群組，而且未選取「無群組」。如果選取了正確的群組，則可能是附加作業失敗。對講機已從目前的通話群組卸除。請等待對講機再次附加目前通話群組。
無效的 ID 無項目	輸入的號碼無效。
有限服務	允許進行緊急呼叫、緊急通報和行動性操作（例如附加群組）。其他所有來電或撥出通話以及資料服務均已封鎖。
未附加清單	尚未附加掃描清單中的所有通話群組。
已附加部份清單	掃描清單已作用，但是尚未將所有通話群組附加至清單。
訊息已傳送	郵件已成功傳送。
訊息失敗	郵件傳送失敗。
我的群組是空的	當我的群組範圍時空的，您無法檢視/刪除群組。

訊息	訊息說明
我的群組已滿	您無法新增群組至我的群組範圍，因為資料夾包含的群組數已達允許上限。
網路故障	網路問題。請稍後再重試。
無回應	對方未接聽。
無項目	電話簿清單是空的。
無群組	<ul style="list-style-type: none"> 當您不在所選通話群組的正常涵蓋範圍時會顯示此訊息。此時您必須選取在您工作地點中有效的新通話群組。 指出最愛群組已從我的群組範圍中移除。
無 GPS 訊號	請檢查 GPS 天線已正確安裝，而且天線可無阻礙地接收到衛星訊號。
無新或舊訊息	收件箱是空的。
沒有服務	對講機超出涵蓋範圍。
不允許撥號	您無法撥打未列在電話簿中的號碼 – 如果已由您的服務供應商設定。
不允許傳輸	<ul style="list-style-type: none"> 放開 PTT 然後再重試。 您無法傳送文字訊息或狀態訊息至未列在電話簿中的號碼 – 如果已由您的服務供應商設定。
僅單一項目	在捲動清單中僅有一個設定的項目。
過熱	對講機將自動關機。維持關機約 5 分鐘。
對方忙線	撥打的對講機在忙線中。
對方不在系統內	撥打的對講機不在涵蓋範圍。請稍後再重試。撥打的對講機已關機。請稍後再重試。
請重試	MTM800 無法撥號。
請稍候 連接中	開機期間或網路重新連接時顯示的訊息。
註冊失敗	對講機無法向系統註冊。請稍後再重試。請連絡您的服務供應商。
服務被拒	無效的號碼。請洽詢服務供應商。
無可用服務	在目前網路上無法使用此項服務。
服務已限制	服務供應商已限制此項服務，或您尚未購買此項服務。
單一通話群組	在捲動清單中僅有一個設定的項目。
通話群組... 已新增	群組名稱已新增至最愛的通話群組範圍。
請稍後重試	要求的服務暫時無法使用。
裝置已停用	請洽詢服務供應商。







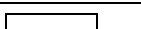
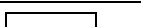


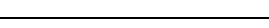
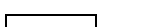


訊息	訊息說明
裝置正常警告 ...	自我測試發生錯誤。已偵測到對講機發生輕微故障。對講機仍可正常運作。若再次發生此錯誤，請記下此錯誤代碼並洽詢服務供應商。
裝置未附加	無法將對講機附加至系統。可能是未在系統中定義此通話群組。請嘗試其他群組。
等待麥克風	緊急麥克風功能已啓動，但是已對相同通話群組的另一個緊急呼叫提供頻道傳送許可。此時對講機的麥克風沒有作用，但是對講機將會在經過預先定義的時間後自動嘗試取得通話許可。

鈴聲

□ = 高音；■ = 低音		
說明	類型	重複
待機		
<ul style="list-style-type: none"> • 返回首頁畫面 • 當旋鈕捲動功能計時器已達逾時時間，就會返回旋鈕音量調整功能 • 返回涵蓋範圍 • 返回完整服務 		一次
清除以傳送		一次
按鍵無效		一次
<ul style="list-style-type: none"> • 按鍵有效 • MTM800 開機時自我測試失敗 • 從不在服務範圍進入服務範圍 		一次
通話中		
<ul style="list-style-type: none"> • 通話清除警告 • 通話已修改 		一次
當有待接來電或私人通話時，發出通話待接音		每 6 秒一次，直到通話結束
已數據連接或中斷數據連接。		一次
按下 PTT 時發出通話允許音	 	一次（標準提示音） 一次（短提示音）
按下 PTT 時允許不透過閘道通話。此提示音表示閘道無法使用。	 	兩次 一次

□ = 高音 ; ■ = 低音		
說明	類型	重複
<ul style="list-style-type: none"> 禁止通話 系統忙碌 逾時計時器已達逾時時間 要通話的 MTM800 不在系統內或忙線中 		直到放開 PTT
由於網路的關係，通話中斷或失敗		一次
撥號錯誤		無鈴聲
進入 DMO (直通模式)		一次
退出 DMO		一次
本端站台中繼 — 進入/退出		一次
電話答鈴 (傳送)		每 3 秒一次，直到對方接聽或通話被拒
電話忙線		每 0.5 秒一次
狀態訊息已傳送至調度員或傳送失敗。		兩次
來電		
調度員已確認狀態訊息		四次
您的 MTM800 未透過閘道接收到群組呼叫 (僅設定)		一次
接收到高優先性群組呼叫		一次
已傳送或接收到緊急通報		兩次
緊急通報失敗		四次
已接收到緊急呼叫		一次
電話鈴聲，全雙工私人通話 (接收)	依鈴聲類型子功能表中的設定而定	直到您接聽或拒絕通話

□ = 高音；■ = 低音

說明	類型	重複
接聽私人通話	依鈴聲類型子功能表中的設定而定	直到您接聽或拒絕通話
私人通話答鈴		直到接聽來電
半雙工私人優先通話 (PPC) 鈴聲		每 4 秒一次，直到接聽或拒絕通話
全雙工私人 PPC 鈴聲		每 4 秒一次，直到接聽或拒絕通話
有限服務		在進入有限服務區域時會響一次
收到新郵件		兩次
新群組呼叫		一次
一般說明		
音量設定（聽筒、鍵盤、揚聲器）		連續
音量設定（鈴聲）		在設定音量時
傳輸抑制 (TXI)		一次
旋鈕音		一次，當從清單控制切換至音量控制時
電量不足提示		重複
DTMF (0-9, #, *)，在通話期間	DTMF 	連續，直到使用者放開按鍵
GPS		
GPS 在涵蓋範圍內		一次
GPS 超出涵蓋範圍		一次

注意

您的服務商可針對未接來電和未讀訊息設定定期提示音。

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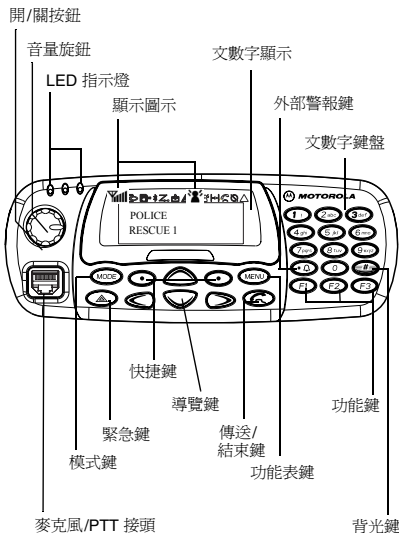
長號碼 9



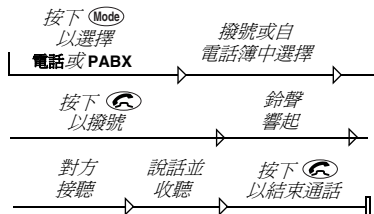
MTM800

車載台對講機

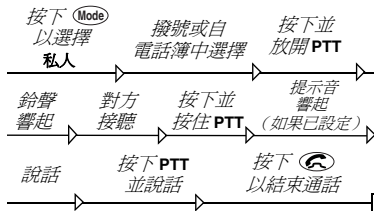
快速參考指南



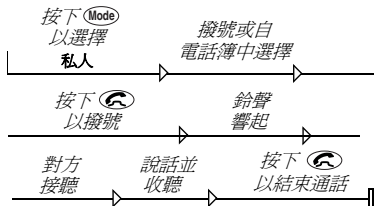
撥打電話/PABX 通話



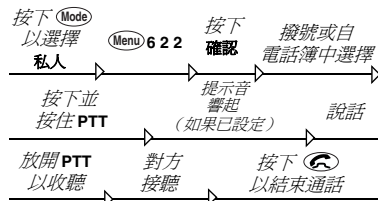
撥打 TMO 私人通話



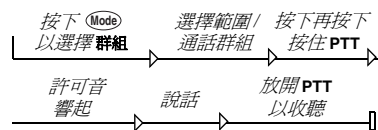
撥打 TMO 私人全雙工通話



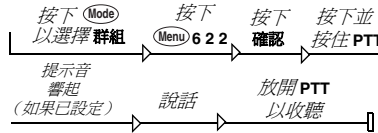
撥打 DMO 私人通話




進行 TMO 群組呼叫



進行 DMO 群組呼叫



進行 TMO 緊急群組呼叫


按住 。緊急通報會自動傳送。

在緊急模式中，按住 PTT 即可說話。
如果使用緊急麥克風功能，請等到「緊急麥克風啟動」訊息出現在螢幕上後，不需按下 PTT 即可說話。

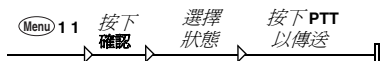
若要退出緊急模式，按住返回。

接聽來電

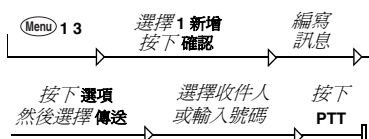
MTM800 會切換至來電模式並開始響鈴。若要接聽來電，

- 按下 （若為電話或 PABX 通話），或者
- 按下 PTT（若為其他通話類型）。

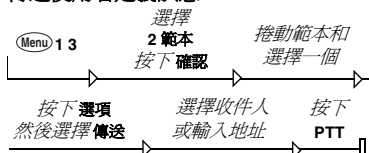
傳送狀態訊息



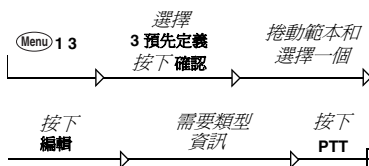
傳送新訊息




傳送使用者定義訊息



傳送預先定義的訊息



處理傳入的新文字訊息

 圖示會在螢幕上閃爍，而且 MTM800 會發出提示音。有關詳細資訊，請參閱本使用手冊中的「功能表訊息」一節。





處理舊訊息






上次撥出的號碼

在私人模式中，按下 PTT 以撥打上次撥出的號碼。

在電話/PABX 模式中，按下  以顯示上次撥出的號碼或是已撥出的號碼清單。如果出現清單，請捲動至所需的號碼。再次按下  以撥號。

使用功能表

- 進入功能表 – 按下 。
- 在功能表中捲動 – 按下  或 。
- 選擇功能表選項 – 按下確認。
- 退出功能表 – 下返回。

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General Information

Safety Information

	CAUTION	<i>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.</i>
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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 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 84.

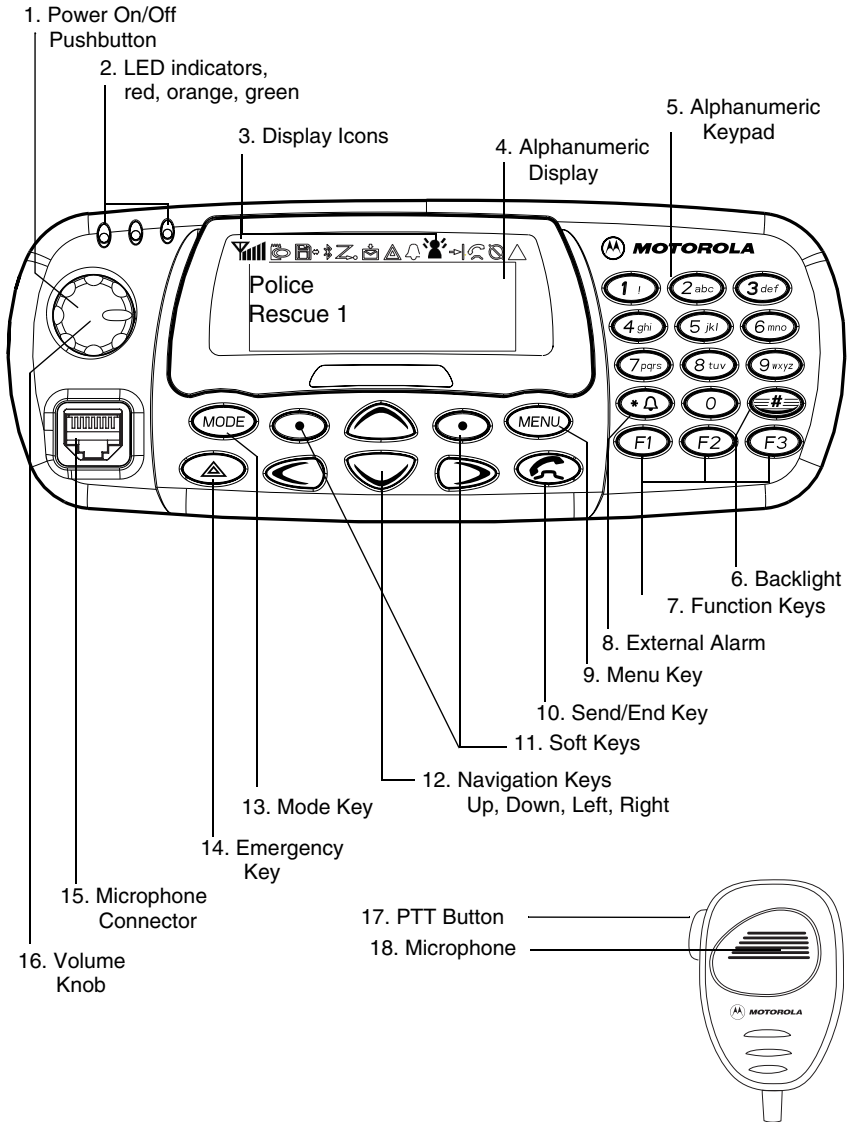
How to Use this Guide

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
Mode or Yes	Key presses are shown as a key symbol or in bold print for soft key functions.
Menu 2 2 1	Use alphanumeric keys as shortcuts to reach the required sub-menus. In this example, press Menu 2 abc 2 abc 1 ! in sequence, not simultaneously.
2 Addr. Book	Highlighted text indicates the selection.
Status Sent	Information appearing on the MTM800 display are shown in special print.
NOTE	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)	Display Icons Show additional information and MTM800 status. (See page 7.)
4)	Alphanumeric Display Backlit view of up to 4 lines of characters or digits (up to 16 characters or digits per line).
5)	Alphanumeric Keypad Enter numbers and alphabetic characters. (See page 14.). The function of these keys is programmable by the Service Provider. (See page 17.)
6)	Backlight Key Dims and intensifies the radio's backlight (four intensity options). (See page 27.)
7)	Function Keys The function of these keys is programmable by the Service Provider. (See page 17.)
8)	External Alarm Key Used to activate and deactivate the External Alarm (Horn & Lights). (See page 27.)
9)	Menu Key Press to bring up menu options. Use navigation keys to scroll. (See page 14.)
10)	Send/End Key Press to initiate full duplex calls, send text and status messages, and to end phone calls, PABX calls, full duplex and half-duplex private calls.
11)	Soft Keys Press to select the option that appears directly above the left or right key on the fourth line of the display. (See page 13.)
12)	Navigation Keys Press to move up or down through options and lists, such as message or phone address book lists.










Item	Description
13)	Mode Key Select the Phone, PABX, Private, or Group mode. (See page 12.)
14)	Emergency Key Initiates Emergency mode and sends Emergency Alarms. (See page 14.)
15)	Microphone Connector Connector for a Fist or Desk microphone with PTT button, or the Telephone Style handset.
16)	Volume Knob Adjusts the volume level. (See page 27.)
17)	Push-To-Talk Button (PTT) Press to: <ul style="list-style-type: none"> • Send a Group, Private, or Emergency Call. • Send a status message.
18)	Microphone Speak into this during communications.



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. Five 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 icon 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.

Icon	Description
	<p>DMO Gateway Indicates that you selected to work with a gateway. This icon has three states: Solid — while the terminal is synchronised with the gateway (i.e., when the terminal receives a valid 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.</p>
	<p>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.</p>
	<p>Unread Message Indicates that you have unread message in your Inbox.</p>
	<p>New Message Received Your Inbox could not open automatically due to an on-going activity. The icon remains displayed to remind you of new messages in your Inbox.</p>
	<p>External Alarm Displayed when External Alarm (“Horn & Lights”) is enabled.</p>
	<p>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.</p>
	<p>Phone Call Blinks when a Phone Call is received.</p>
	<p>Emergency Appears while the MTM800 is in Emergency mode. The icon blinks to indicate an incoming Emergency Group Call.</p>
	<p>Priority Scan (with Priority Monitor Dot) Indicates scanning is activated.</p>

Icon	Description
	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.

Indicating Loudspeaker On/Off

NOTE *The Loudspeaker On/Off indication is only available in Group Mode.*

An inverted talkgroup line is used when the Telephone Style Handset accessory is configured (See page 90).

- If the Talkgroup line is displayed inverse, any incoming call is received through the earpiece of the handset.
- If the Talkgroup line is not inverted, any incoming audio is received through the external loudspeaker.

Range 1
Group 1
Status Optns

Range 1
Group 1
Status Optns

The selection of handset earpiece or loudspeaker is via “Speaker On/Off” programmable buttons.



Displaying Long Numbers

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

David
0356587...
Back Optns

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, and  to return to the previous 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 Emergency Foot 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 61).

A set of icons and squares will appear on your display. (See “List of Display Icons” on page 7.) 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 25.)

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 “Locking/Unlocking the Keypad” on page 79.

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 91.

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 92) 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.

Exit TXI?

Yes

No

Press the **Yes** soft key (see “The Soft Keys” on page 13) 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 **Yes**, 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 **No** will power off the terminal.

If you press **No**, and the terminal was previously used in TXI and Direct Mode, it will remain in TXI and Direct Mode.

Key Overview

The Mode Key

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 vehicle. Any obstructions (hills, buildings, etc.) between the TETRA terminal users will further decrease the range. Conversely, moving the vehicle to another or higher location may improve the range.

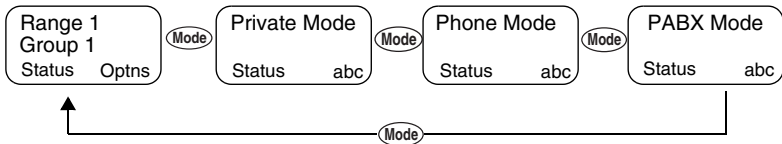
A terminal in DMO can communicate with the trunking system (and vice-versa) through a gateway device. To use that feature, please enable the gateway option in your terminal (see “Gateway/Repeater Selection” on page 43).

NOTE

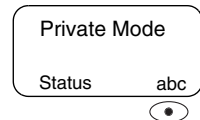
It is only possible to place group and emergency group calls in DMO.

To cycle through the Group, Private, Phone, and PABX modes, press **Mode** successively.

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

Examples of Mode Start Screens:**The Soft Keys**

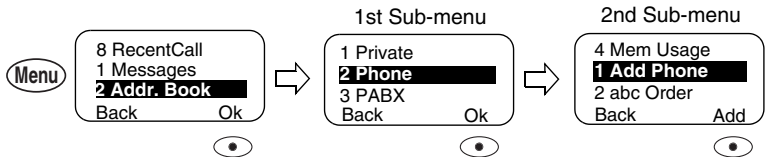
Press **Mode** to select the option that appears in the screen directly above the left or right soft key. In this example, **abc** is displayed above the key. Pressing **Mode** enters the address book. In the user guide, this action is described as “press abc”.



The Menu Key

Press **Menu** to enter the main menu hierarchy (when there is no on-going activity). The MTM800 menus allow you to control your MTM800 settings. Menus are organised in a hierarchy. See “List of Menu Options” on page 73. The menu 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 address book. The last option appears in the first line of the 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 **Emergency** 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).

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 Clear
Delete the whole text	Press and hold Clear
Quit editing	Press Clear

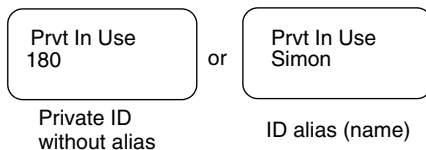
Aliases (Names)

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 !	.,?!01@' "- (/ : _ ; + & % x * = < > € £ \$ ¥ ¢ [] { } \ ~ ^ ` ¡ ¢ § #
 2 abc	A B C 2 Ä Å Æ Ç a b c 2 ä å æ ç
 3 def	D E F 3 È É Ê Ë d e f 3 è é ê ë
 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

Key	Alphanumerics
	T U V 8 Ü Ù Ú Ú t u v 8 ü ù û ú
	W X Y Z 9 w x y z 9
	Space * / %
	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 or one of the three function keys F1 to F3. Your Service Provider should program the numeric and option 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
Current/Last Switch Talkgroup	Switches to the previous talkgroup (even if the operation mode was different)
Talkgroup Scan	Enables/disables the Talkgroup Scan function. (TMO only)
Home Revert	Puts the MTM800 back into Group mode
DMO/TMO	Toggles between DMO and TMO modes.
Status Message	Sends a dedicated status message to a dedicated address. (TMO only)
Speaker on/off	Directs voice audio to the earpiece of the telephone style handset or to the loudspeaker.

Text Message Template	Sends a predefined/user defined template to a dedicated address. (TMO only)
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
Time & Date	Shows time and date.

NOTE

If the one-touch feature is enabled, one-touch dial is disabled (see page 59).

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 several seconds after any key press.

Range 1
<HomeModeDispTxt>

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

NOTE *This feature is used as a special reminder message to the user. Typically this would consist of a call sign, or work dispatch reference number, or even for a train run number or bus route number. New messages can be updated “over the air”.*

Time & Date

If your Service Provider configured this feature, you can check time and date, by pressing relevant one-touch button.

Check in the menu options whether the Service Provider has given you the capability of customising time and date settings.

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  while dialling 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 detects 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, transmission 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 88).

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, or dispatcher 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 telephone style handset, according to the setting used when the PPC is received

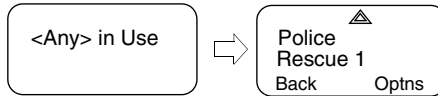
NOTE *For call alert, see settings in the Tones menu option (page 88).*

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.



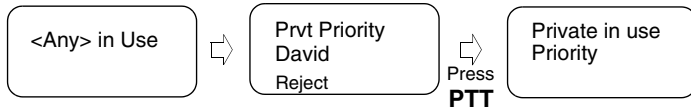
Receiving a Private PPC during a Call

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.

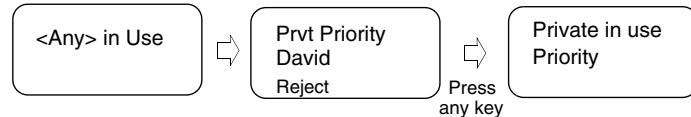
A PPC with lower or equal priority, will be dropped without any indication to the called user and will enter the missed call list.

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

Group In Use
Broadcast
Status

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
Status

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 30. For changing range during a broadcast call see “Changing a Talkgroup during/on receiving a call” on page 34.

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 **Reject**. The call number will be forwarded to the Missed Call list.

Using In-call Features

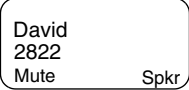
NOTE

The in-call features are only available when using the Telephone Style Handset (see “Setting Accessory” on page 90).

Switching the Loudspeaker On/Off

Picking the Telephone Style Handset from the hang-up cup will disconnect the loudspeaker and the receive audio will only be heard in the earpiece of the handset.

1. To activate the external loudspeaker, press **Spkr**. The **Spkr** soft key is blinking when active.



David
2822
Mute Spkr

2. To de-activate the external loudspeaker, press **Spkr**. The **Spkr** soft key is no longer blinking.

With the functional button (F1 or F2 on the handset) the external speaker may additionally be switched on/off (if programmed by your Service Provider)

Muting/Unmuting the Microphone

During a Phone, PABX, or private Full-Duplex Call, use the mute feature to:

- hold conversation without being heard by the caller.
 - silence possible background noise in your area
1. Press **Mute**. The 'Mute' soft key is blinking when active. The microphone is muted. You can hear the incoming audio, but the caller cannot hear any speech coming from your MTM800.
 2. To speak, press **Mute** again. The 'Mute' soft key is no longer blinking. The microphone is on.

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 83).

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 repeat 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 85), 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 car 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 in your vehicle.

If the External Alarm function is pre-programmed, the car 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 Packet Data (MSPD) Service (refer to “Packet Data” on page 97).

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 93.

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.

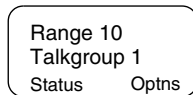
Your MTM800 will always monitor the group calls in the ATG scan list. To place an Announcement Call, you must first select the specified Announcement Talkgroup as advised by your Service Provider, otherwise you will only be able to participate when an Announcement Talkgroup is received.

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:

- navigation keys
- alphabetical search feature
- numeric keypad entry (if configured)
- favourite groups (if configured)

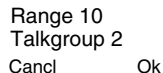


For talkgroup range scrolling configuration, see note in “Selecting a Range” on page 34

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

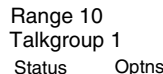
Ok. For talkgroup range scrolling configuration, see note in “Selecting a Range” below.



```
Range 10
Talkgroup 2
Cancel      Ok
```

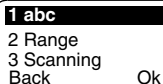
Using Alphabetical Search

1. In Group Mode, press **Optns**.



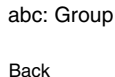
```
Range 10
Talkgroup 1
Status     Optns
```

2. Select **abc** for talkgroup alpha search.



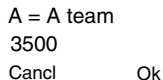
```
1 abc
2 Range
3 Scanning
Back      Ok
```

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.



```
abc: Group
Back
```

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



```
A = A team
3500
Cancel      Ok
```

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 **Optns**.

Range 10
Talkgroup 1
Status Optns

2. Select **5 View Speed#** to view the talkgroup speed number.

5 View Speed#
1 abc
2 Range
Back Ok

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

Range 10
1*=Talkgroup 1
Back

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

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

Range 10
Talkgroup 1
Status Optns

2. Press **Menu**.

Range 10
Talkgroup 2
Cncl Ok


3. Select **1 View Speed#** to view the talkgroup speed number.

1 View Speed#
Back Ok

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

Range 10
2*=Talkgroup 2
Back

Dialling a speed number

1. Enter a number (for example: “2”).
2. Press **Find** or .
3. Press **Select** to attach the new group, or press **PTT** to attach and call.

Range 10
Talkgroup 1
Status Optns

Range 10
2
Clear Find

Range 10
2*=Talkgroup 2
Cancel Select

Favourite Groups

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 **Optns**.
2. Select **4 Add To MyGrp**. The terminal displays the talkgroup alias added message and then returns to idle state.

Range 10
Talkgroup 1
Status Optns

3 Scanning
4 Add to MyGrp
5 View Speed#
Back OK

TG 101
added

Adding a Group from the My Groups menu option

See “My Groups” on page 77.

Selecting a Group from the My Groups Range

See “My Groups” on page 77.

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. In Group Mode, press **Optns**, followed by **Range**.
2. Use the navigation key to scroll through the ranges.
3. Press **Ok** to select the range (or press and hold **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 93.

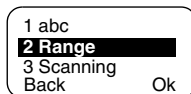
Making a Group Call

1. Press **Mode** until **Group Mode** appears on your display. In this example, “Range 10” is the last selected range and “Talkgroup 1” is the last selected talkgroup.

If you press **Optns**, you have the option to select **1 abc**, **2 Range**, or **3 Scanning** (see “Receiving a Group Call with Scan On” on page 37).

2. If this is the talkgroup you wish to call, press and hold the **PTT**. Wait for the “Talk permit” tone (if configured) and then speak into the microphone. Release the **PTT** button to listen.
3. To call a talkgroup other than the one shown, press a navigation key to scroll through the talkgroups. Press **Ok** to select the talkgroup. Press **PTT** to start the call in the new talkgroup.

4. To select a range other than the one shown, press **Optns** and then **Range**. Use the arrow keys to scroll through the ranges. To cancel range scrolling, press **Back**.



Press **Ok** to select the range (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, the members of the selected talkgroup who have their terminals 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 7712) is displayed.



NOTE

For incoming call alert, see settings in the Tones menu option (page 88).

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.

Group In Use
TG 4
Status

Receiving a Group Call during an On-going Group Call

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

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

or

- Presented to you (if it has higher priority than the on-going call).
 - > To accept the call, press **Join**.
 - > To cancel the call, press **End**.

ID: 7712
TG 4
End Join

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:

ID: 7712
TG 4
End

- 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 23.

Receiving a Broadcast Call

For detailed information, see page 23.

Transmit Inhibit

The Transmit Inhibit (TXI) Mode can be activated by the user before he enters RF sensitive areas, e.g. in 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 its 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.

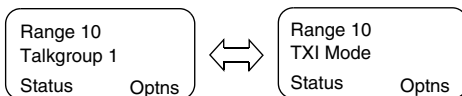
All terminal functions and keys which cause transmission, e.g. registration to the network, change of talkgroup or range, sending messages, pressing **PTT**, etc. are disabled. In this case the display shows “Not Allowed In TXI Mode” and the terminal sounds the “Transmit Inhibit” tone.

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 92.

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)

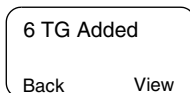
DGNA provides the ability for a network operator or authorised user to dynamically allocate new, or update existing talkgroups to selected terminals over the air interface. Using supplementary services messages (SS-DGNA), the network operator can command the terminal to add talkgroups to the existing 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.

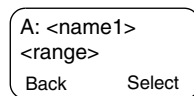
DGNA Reception with Notification Message

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 **View**. You may scroll through the list using the   keys.



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

NOTE

*Once you exit the DGNA notification screen, the **Select** key disappears. To select one of the newly added groups, see page 30.*

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.

12 TG Removed
Back View

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

All TalkGroups
Deleted
Back

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 allows the user to send a predefined status message by pressing the Emergency button/footswitch. TMO Emergency mode, Emergency Alarm and initiating a 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 is sent to the reserved address
- the message is sent even if the user is involved in an 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 38. DMO Talkgroup selection is allowed when Transmit Inhibit is activated.

Selecting a Talkgroup

See “Selecting a Talkgroup” on page 30.

Changing a Talkgroup during/on Receiving a Call

See “Changing a Talkgroup during/on receiving a call” on page 34.

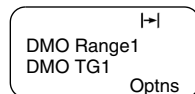
Switching from TMO to DMO or from DMO to TMO

Enter TMO or DMO in one of the following ways:

- To switch from TMO to DMO press **Menu 6 2 2**.
- To switch from DMO to TMO press **Menu 6 2 1**.
- Press the dedicated TMO/DMO one-touch button (configured by your Service Provider).

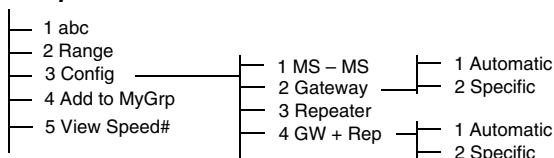
Gateway/Repeater Selection

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



1. Press **Optns** to enter the options menu in DMO:

DMO Options Sub-menu

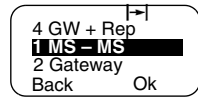


2. Scroll to **3 Config**, and press **Ok**.

Selecting DMO Group Call MS to MS

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

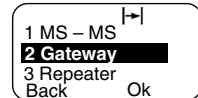
1. Press **Optns**, scroll to **3 Config**, and press **Ok**.
2. Scroll to **1 MS – MS** and press **Ok**. The following message to be displayed for a few seconds: **MS – MS Will Be Used**.



Selecting DMO Group Call via Gateway

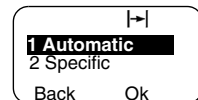
While in DMO, proceed as follows to choose a gateway to set up a call via Gateway for the selected talkgroup:

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



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

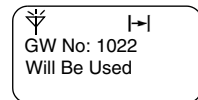
Automatic — the MTM800 will use the first available gateway for that talkgroup. The Gateway icon will blink upon selecting that option.



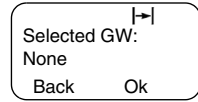
Specific — the MTM800 will use only the gateway with the specified Gateway address for that talkgroup.

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

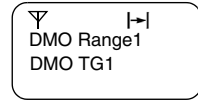
- The selected gateway address (e.g.: 1022), pre-programmed by your Service Provider or previously entered by yourself via the keypad. Press **Ok** to use the current address, or enter a new address via the keypad, and press **Ok**. The Gateway icon will blink upon selecting the gateway.



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



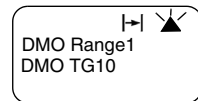
When the MTM800 detects the suitable gateway, the Gateway icon will turn solid.



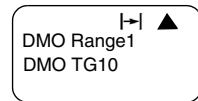
Selecting DMO Group Call via Repeater

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

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



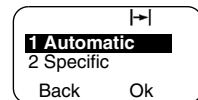
When the MTM800 detects the proper repeater presence signal, the Repeater icon will turn solid.



Selecting DMO Group Call via Gateway and Repeater

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

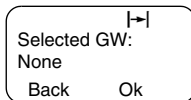
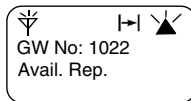


Automatic — the MTM800 will use the first available gateway for that talkgroup. The Gateway icon and the repeater icon will blink upon selecting that option.

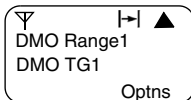
Specific — the MTM800 will use only the gateway with the specified Gateway address for that talkgroup.

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 **Ok** to use the current address, or enter a new address via the keypad, and press **Ok**. 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 **Ok**. The Gateway and Repeater icons will blink upon selecting the gateway.

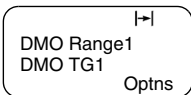
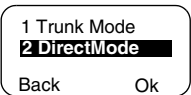
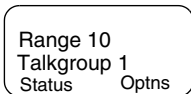


When the MTM800 detects the appropriate gateway and/or the Repeater, the Gateway and/or Repeater icons will turn solid, respectively.



Making a DMO Group Call (MS to MS)

1. Press **Mode** until the Group Mode appears on your display.
2. Press **Menu 6 2 2** (see also page 92). To change range and talkgroup, see steps 3 and 4 of “Making a Group Call” on page 35
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.



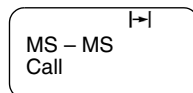
To change talkgroup and range, see the Group Mode section, page 30.

NOTE

To change the Operating Mode quickly you can use one of the programmable keys (if set up by your Service Provider).

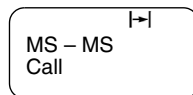
Making a DMO Group Call via Gateway

1. While in DMO, choose a gateway as described in “Selecting DMO Group Call via Gateway” on page 44.
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 45.
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 dis-



play 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 45.
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.

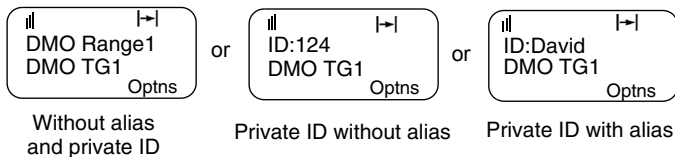
Your MTM800 will display the caller's private number or alias and the talkgroup name.

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

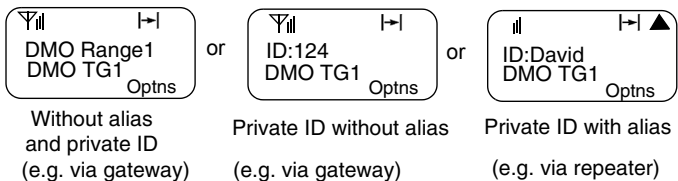
NOTE

For call alert, see settings in the Tones menu option (page 88).

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 55.

Receiving an Emergency Group Call

For detailed information, see “Emergency in DMO” on page 66.

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.

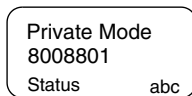
NOTE

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 **Mode** until **Private Mode** appears on the display.

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,
- list scroll, or
- alphabetic search.

Press **Back** to return to the Private Mode display.

Operating with MTM800 in RF sensitive areas, see “Transmit Inhibit” on page 38.

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

The last number called appears the moment the terminal enters private idle mode. Press **PTT** to call this number.


Direct Entry

1. Enter the private number. If the number entered is in the pre-stored private address book, the MTM800 will find it for you.
2. To save the number in the address book, press **Save** and follow the prompts (see “Updating the Private Address Book” on page 75).


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 .

Alphabetic Search

Alphabetic search allows you to locate a stored private number quickly by entering the first letter of the name (or alias) associated with it.


D=David
1024
Cancel

1. Press **abc**.
2. Press the numeric key with the first letter of the name you are searching in the pre-stored list (key  in this example).



NOTE

If no name is stored under a letter, the MTM800 automatically searches forward, alphabetically, until the next name is found. If more than one name in the list begins with the same letter, use the scroll keys to view other names.


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 and release . Once the call is successfully initiated, you will hear a ringing tone. Wait for the called person to answer your call.
3. To end the call, press  again. 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 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.



Prvt Call
ID: 82114

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 88).

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  or any key on the keypad (if configured by your dealer).
3. To end or cancel the call, press . The display returns automatically to the mode it was in before the incoming call arrived.

Prvt Call
ID: 82114

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 88).

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  until **Private Mode** appears on the display.
2. Enter a number like described in “Entering the Private Number” on page 52.
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 .


Private Mode
2234
Status abc

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.

1. Press **PTT** to talk back and start talking.
2. The call ends after a pre-programmed time, or if you press .

Prvt in Use
David
More

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 .

2. If the display shows the called user is busy, press **Yes** to interrupt the on-going call.

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.

Party busy
Interrupt?
Yes No

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 38.

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

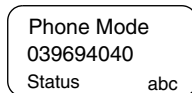
1. Press  until **Phone Mode** appears on your display.

If a PABX call is required, press  key again. **PABX Mode** appears on your display.

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 .
4. To hang up, press  again.




Phone Mode
039694040
Status abc





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,
- list scroll, or
- alphabetic search.



Press **Back** to return to the mode display.

Last Number Redial

When no number is displayed, pressing  will enter the list of last dialled Phone and Private numbers.




1. To scroll backwards or forwards through the list, press  or .
2. To place the Phone call, press .
3. To hang up, press  again.

Direct Dial

1. Dial the full phone number using the keypad.
2. To save the number in the address book, press **Save** and follow the prompts.
3. To place the call, press .
4. To hang up, press  again.


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 .
3. To hang up, press  again.

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 .
2. To place the call, press .
3. To hang up, press  again.

Alphabetic Search



Alphabetic search allows you to locate a stored number quickly by entering the first letter of the name (or alias) associated with it.

1. Press **abc**.
2. Press the numeric key with the first letter of the name you are searching in the pre-stored list ( in this example).

D=David
1024

NOTE

If no name is stored under a letter, the MTM800 searches forward, alphabetically, until the next name is found. If more than one name in the list begins with the same letter, use the scroll keys to view other names.

3. To place the call, press .
4. To hang up, press  again.

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 56.

Answering a Phone or PABX Call

1. The MTM800 automatically switches to Phone Mode and starts ringing.
2. To answer the incoming call, press  or any key (except Power On/Off).
3. To end or cancel the call, press **End**. 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 88).

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 or Private 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 29.) 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 alert, see settings in the Tones menu option (page 88).

Entering TMO or DMO

Enter TMO or DMO in one of the following ways:

- Press  **6 2 1** (TMO)
- Press  **6 2 2** (DMO)
- Press the dedicated TMO/DMO one-touch button (configured by your Service Provider).

Entering or Exiting Emergency Mode

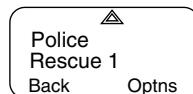
To enter Emergency Mode from any mode, press .

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 **Back**.
- 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 a navigation key and then **Ok**.

To change the range press **Optns**, and proceed as explained in “Making a Group Call” on page 35.

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 26.)

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.*

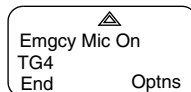
Hot Microphone Feature

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**.

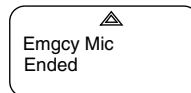
The following will happen upon entering Emergency mode:

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.

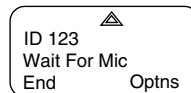


After the Hot Microphone time period expires, or if you press **PTT** during the Hot Microphone period, or if you press **End**: the **Emgcy Mic Ended** message will be displayed, and the terminal reverts back to Emergency Mode. The Hot Microphone feature is now disabled and PTT operation reverts back 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 30.)

When the MTM800 receives the call, the display will show the caller's identity. If the display is idle, it will show **Emergency 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.

NOTE

*In Emergency Hot Microphone Mode with powering on the MTM800 by pressing the emergency foot switch (see "Powering On/Off" on page 10): If a microphone/PTT set is connected to the terminal front socket **and** an external microphone/PTT set is installed the external microphone is opened.*

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 43.

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 vehicle 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 (Menu 9 2)

1. From the main menu, press **Menu** **9 Location – 2 Interface**.

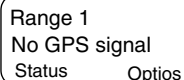
The current selection (On/Off) is highlighted. The display shows:

On — Location Service On

Off — Location Service Off

2. Scroll to your selection and press **Set**.

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
Status Optios

Entering GPS Location Service (Menu 9)

To enter the GPS sub-menu, press

Menu – **9 Location**.

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 (Menu 9 1)

1. From the main menu, press **Menu** – **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.

To calculate your location again, press **Update**. It may take your terminal several minutes to complete the process of determining your location. During this time, a message usually appears on your terminal's display stating:

Insufficient Visible Satellites, or

Insufficient Visible Data.

For tips on getting the best location calculation, see “Enhancing GPS Performance” on page 69.

The **Position** screen displays the updated information. To cancel a location calculation before it is completed:

- Press **Back** 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.

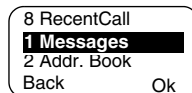
The Menu

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  or .
3. To enter the option, press **Ok**.




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 **2 Address Book – 1 Private – 4 Mem Usage**, press  and key the option numbers **2 1 4**.

Exiting the Menu Options

To exit the menu or sub-menu, press **Back** or .

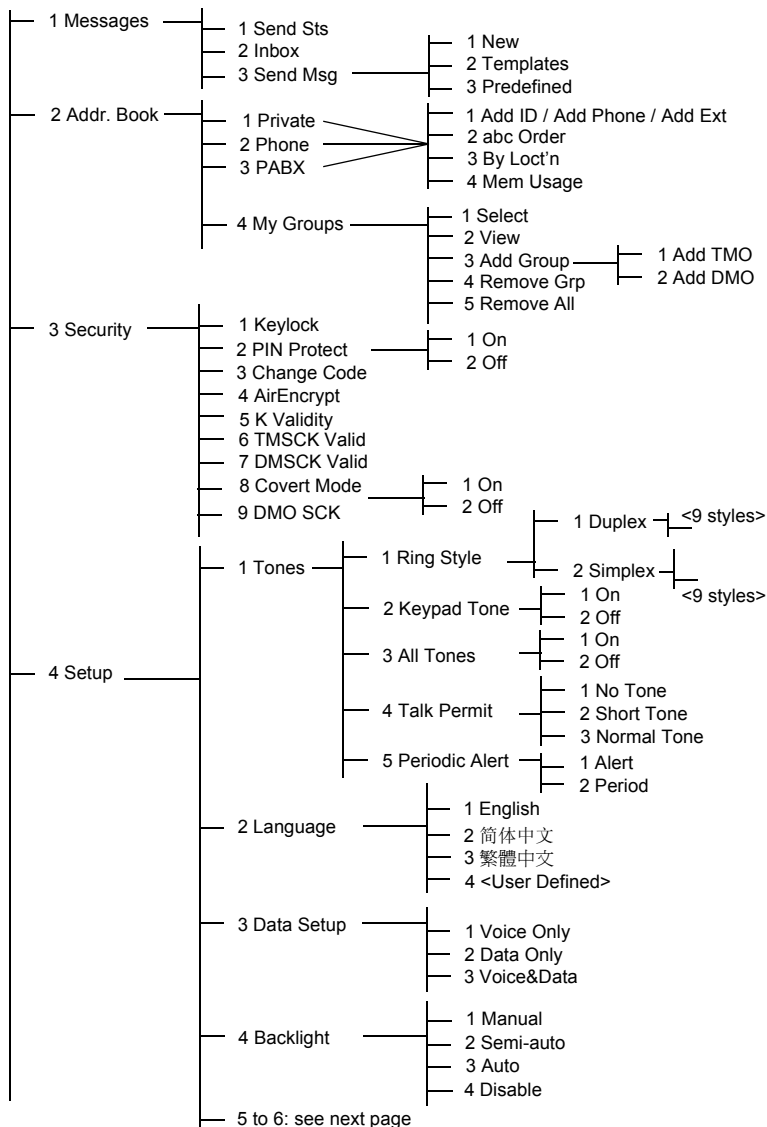
Exiting the Menu

Press and hold **Back** from any menu option. The display returns to the mode previous to entering the Menu.

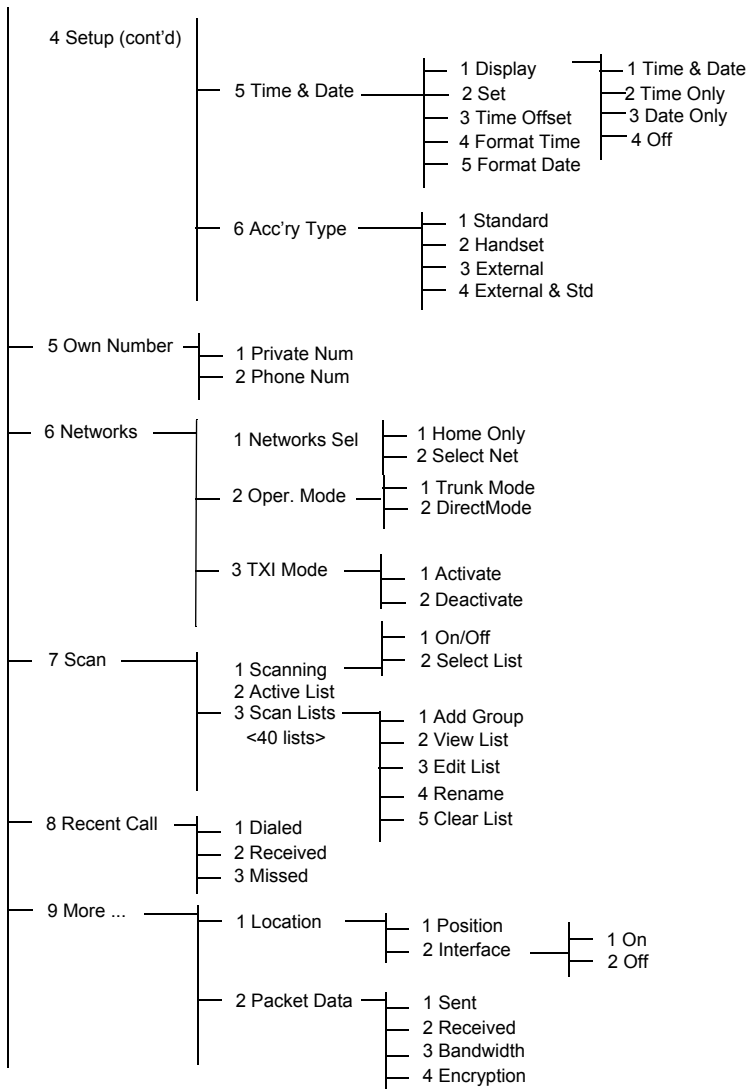
NOTE

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 than the listed. Some options can be enabled/disabled by your Service Provider which can cause the exact menu index numbers to vary.

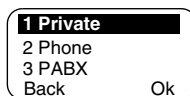
Messages (Menu 1)

Refer to “Messages” on page 99 for details.

Address Book (Menu 2)

To enter the Address Book sub-menu, press **Menu** – **2 Addr. Book**.

- This sub-menu allows you to add, search, edit, or erase entries in the private, phone and PABX address books.

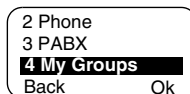
**NOTE**

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 73.

NOTE

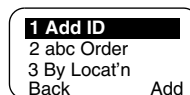
If set up by your Service Provider, it is not possible to create or edit an Address Book entry or to dial a number which is not in the Address Book. The menu items for creating, editing, and deleting contacts in the Address Books are not available.

- Select, view, add, or remove favourite groups.

**Updating the Private Call Address Book (Menu 2 1)**

To enter the Private sub-menu, press **Menu** – **2 Addr. Book** – **1 Private**.

This sub-menu allows you to edit your private call address book.



Adding a Number (Menu 2 1 1)

To enter the sub-menu,

press (Menu) – 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 **Add**. 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 **Ok** 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.

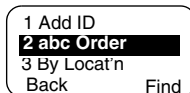
Searching the Address Book Alphabetically (Menu 2 1 2)

or by Location (Menu 2 1 3)

1. To enter the sub-menu,

press (Menu) – 2 **Addr. Book** – 1 **Private** and 2 **abc Order** or 3 **By Locat'n**.

2. Press **Find**. 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. Press **Optns** and scroll to your selection:

- **Edit** the entry. The original location is suggested as the default location for storing the edited entry.

To select another location, scroll through the list of loca-

tions 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 (Menu 2 1 4)

To enter the sub-menu,

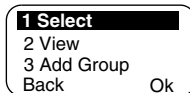
press (Menu) – **2 Addr. Book** – **1 Private** – **4 Mem Usage**.

This screen shows how much memory is left to add new entries to the address book.

My Groups (Menu 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 (Menu 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 **Ok** 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)

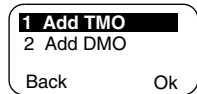
1. Once in the menu, select **2 Addr. Book – 4 My Groups – 2 View**.
2. Scroll through the favourite group list.

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)

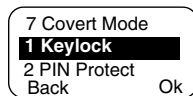
1. Once in the menu, select **2 Addr. Book – 4 My Groups – 4 Remove Grp**.
2. Select the group you wish to remove. In the “Remove?” prompt screen, select **Yes** to confirm removal.

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 (Menu 3)

To enter the Security sub-menu select
3 Security.




Locking/Unlocking the Keypad (Menu 3 1)

To prevent accidental key presses:

1. From the 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 **Reject**.*

2. To unlock the keypad, press (Menu) **3 1**.

NOTE

The Emergency Key is not locked. Entering Emergency Mode, unlocks all keys.

PIN Protect (Menu 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. Press (Menu) – **3 Security – 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. Press **Ok**. 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. Scroll to **3 Change Code** and press **Ok**.
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 (**Menu** 3 4)

To enter the sub-menu, press **Menu** – 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:
**** 0 0 # #**



CAUTION

Using this feature will disable the terminal, and your Service Provider will need to re-enable the terminal.

K Validity (**Menu** 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? (Menu) **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? (Menu) **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.

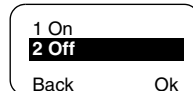
DMSCK is Invalid — your MTM800 cannot work encrypted in DMO. Please call your Service Provider to restore SCKs to your MTM800.

Covert Mode (Menu 3 8)

From the main menu, select **3 Security – 8 Covert Mode**.

Set Covert Mode to On

Select **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 until the loudspeaker is switched off. It is recommended to use e.g. a Telephone Style Handset in Covert Mode.

Set Covert Mode to Off

Select **Off**. All settings for tones and backlight are restored. The LED is enabled and the message **Covert Mode Off** is shown.

DMO SCK (Menu 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 (Menu) 4)

To enter the sub-menu, press

(Menu) – 4 Setup – Ok.

This sub-menu allows you to change your MTM800 configuration: key tones, language, ring style, time, date or data setup.



1 Ring Style
2 Language
3 Data Setup
Back Ok

Setting the Ring Style (Menu) 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 (Menu) – 4 Setup – 1 Ring Style – 1 Duplex or 2 Simplex – Ok.
2. Scroll to the desired style, and press Set.

The display shows your new selection.

You will hear the new ring style immediately for a few seconds. If necessary, turn the Volume knob to adjust the volume.



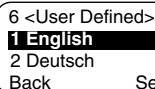
1 British
2 Style 2
3 Style 3
Back Set

Setting the Display's Working Language (Menu) 4 2)

Once in the Setup 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.

Scroll to the desired language and press Set. The display shows the selected language for a few seconds.



6 <User Defined>
1 English
2 Deutsch
Back Set

Setting Up Data Mode (Menu) 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 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 **Set**.

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.

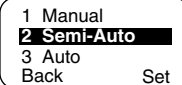
NOTE

Data services are available only in TMO. Data Services are blocked in TXI Mode.

Setting Backlight (4 4)

Once in the Setup menu, select **4 Backlight**.

This option allows you to configure your MTM800’s backlight setting (see also “Dimming the Display” on page 27).





Your MTM800 has 4 backlight settings:


Manual (4 4 1)

Press  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.

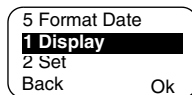
Disable (4 4 4)

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 **Set**. Press **Back** 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 (**Menu** 4 5 2)

To set time and/or date:

1. Enter the **Setup** menu.
2. Select **Time&Date**, and press **Ok**.
3. Select **Set**, and press **Ok**.

Enter time using navigation keys or **2**(Up), **8**(Down), **4**(Left), **6**(Right) keys from the alphanumeric keypad and press **Set**. Press **Back** to exit.

Setting Offset (**Menu** 4 5 3)

To set local time offset:

1. Enter the **Setup** menu.
2. Select **Time&Date**, and press **Ok**.
3. Select **Time Offset**, and press **Ok**.

Enter offset value using navigation keys or **2**(Up), **8**(Down), **4**(Left), **6**(Right) keys from the alphanumeric keypad and press **Set**. Press **Back** to exit.

NOTE

You can adjust the offset value, with 15 minute steps, up to 14 hours ahead or behind.

Setting Time Format (**Menu** 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 **Ok**.
3. Select **Format Time**, and press **Ok**.

Choose required setting and press **Set**. Press **Back** to exit.

Setting Date Format (Menu 4 5 5)

To change displayed date format between DD/MM/YY, MM/DD/YY and DD-MON-YY:

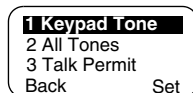
1. Enter the **Setup** menu.
2. Select **Time&Date**, and press **Ok**.
3. Select **Format Date**, and press **Ok**.

Choose required setting and press **Set**. Press **Back** to exit.

Setting Tones (Menu 4 6)

Once in the Setup menu, select **6 Tone**

This sub-menu allows you to activate/deactivate the keypad tones and other tones used in the MTM800.



Scroll to the desired setting and press **Set**.

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.

For a detailed list of tones, see “Tones” on page 112.

Setting Keypad Tone (Menu 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 **Ok**.
3. Scroll through the settings by using the navigation keys.
4. Choose required setting, and press **Set**, or press **Back** to exit.

Setting All Tones (Menu 4 6 2)

To activate/deactivate all tones (keypad tone and other activity tones used in your MTM800):

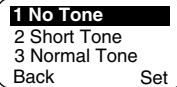
1. Enter the **Setup** menu.
2. Select **Tones**, followed by **All Tones**, and press **Ok**.

3. Scroll through the settings by using the navigation keys.
4. Choose required setting, and press **Set**, or press **Back** 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**

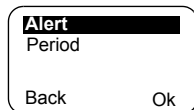
Normal Tone — the factory-default tone heard pressing the **PTT**

To change your Talk Permit Tone settings:

1. Enter the **Setup** menu.
2. Select **Tones**, followed by **Talk Permit**, and press **Ok**.
3. Scroll through the settings by using the navigation keys.
4. Choose required setting, and press **Set**, or press **Back** to exit.

Setting Periodic Alert (4 6 4)

Periodic alert indicates the missed calls and the unread messages. For each indication the unread message tone is played with the amber LED color. This feature can be disabled/enabled by the user.



1. Enter the **Setup** menu.
2. Select **Tones**, followed by **Periodic Alert**, and press **Ok**.
3. Select **Alert** and choose required setting, and press **Set** to select, or press **Back** to exit.

The user can also set the time between the indications.

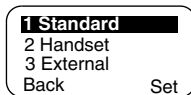
1. Enter the **Setup** menu.
2. Select **Tones**, followed by **Periodic Alert**, and press **Ok**.

Select **Period** and choose required setting, and press **Set** to select, or press **Back** to exit.

Setting Accessory (**Menu** 4 7)

Once in the Setup 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.

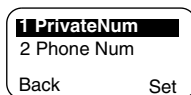
NOTE *Accessories has to be configured by MS/CPS user in order to use them.*

Own Number (**Menu** 5)

Use this feature to view your own private or phone number at any time.

Viewing Private or Phone Number (**Menu** 5 1 or **Menu** 5 2)

To enter the sub-menu, press **Menu** – **5 Own Number** and afterwards **1 PrivateNum** or **2 Phone Num**.



The displayed private number cannot be modified.

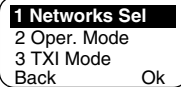
To modify the displayed phone number, press **Set**.

The new phone number does not modify the MTM800 number in the system.

Network (Menu 6)

To enter the sub-menu, press **Menu** – **6 Networks**.

This sub-menu allows you to select the network your MTM800 will be registered to, and what mode it operates on.

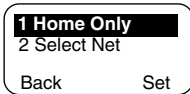


Selecting Your Network (Menu 6 1)

This sub-menu allows you to select the network your terminal will be registered to.

Selecting Home Only Network Registration (Menu 6 1 1)

To enter the sub-menu, press **Menu** – **6 Networks** – **1 Networks Sel** – **1 Home Only**.



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 (Menu 6 1 2)

To enter the sub-menu, press **Menu** – **6 Networks** – **1 Networks Sel** – **2 Select Net**.

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 **Set**.

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:

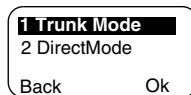
- Select **2 DirectMode**, or **1 Trunk Mode**, and press **Ok**.

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 Operation Mode quickly you can use one of the programmable keys (if set up by your Service Provider).



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 **Ok**.

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.

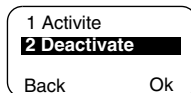
NOTE

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 **Ok**.

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 (Menu 7)

To enter the sub-menu, press (Menu) – 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 (Menu 7 1)

To enter the sub-menu, press (Menu) – 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 **Ok**. If it is set to **Off**, display shows the following state:

When set to **On**, the display shows the following state:

- The last selected scan list, or
- the first list in the scan lists.

To select a list other than the one shown, scroll through the scan lists and press **Set**.

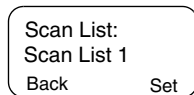
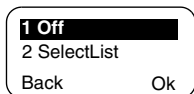
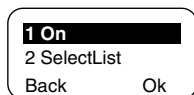
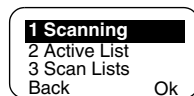
To change your selection:

- Select (Menu) – 7 **Scan** – 1 **Scanning** – 1 **SelectList**,
or
- Enter Group mode and select **Optns** – **Scan** – 1 **SelectList**.

A message indicating that all scan lists are empty.

Select **3 Scan Lists** to fill the scan list(s). See page 94.

When set to **Off**, scanning is deactivated.



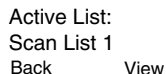
After completing the settings, the display returns either to the Scan sub-menu or to Group mode.

To view the active scan list and its talkgroup status, see section below.

Viewing the Active Scan List (Menu 7 2)

To enter the sub-menu, press **Menu** – **7 Scan** – **2 Active List**.

This sub-menu allows you to view the active scan list.



```
Active List:
Scan List 1
Back      View
```

The display will show one of the following statuses:

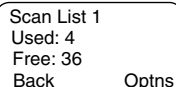
- There is a selected, inactive scan list. Scanning is off.
- There is no selected scan list. Scanning is off.
- There is a selected, active scan list. Scanning is on.

To see the talkgroup status (active or not active) and priority (if pre-programmed), press **View**, and scroll through the talkgroups.

Editing Scan Lists (Menu 7 3)

To enter the sub-menu, press **Menu** – **7 Scan** – **3 ScanLists**.

The display allows you to scroll through the scan lists to see the number of talkgroups used per list.



```
Scan List 1
Used: 4
Free: 36
Back      Optns
```

To edit/view the contents of a scan list, press **Optns** and scroll to your selection.

Press **Ok** to select one of the following options:



```
5 Clear List
1 Add Group
2 View List
Back      Ok
```

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).

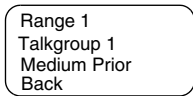
- To select a range, scroll through the range list. The list does not show ranges whose talkgroups are fully used in the selected scan list. Press **Ok** to select a range.

- 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 **Ok**.
- 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.

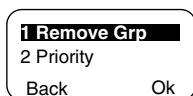
A call from a medium/low priority talkgroup will not interrupt the on-going call.

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 **Optns**. Scroll to one of the following options:

- To **Remove** a talkgroup from the selected scan list, select **1 Remove Grp** and press **Ok**. 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 **Ok**. Scroll to the selected priority and press **Ok**. After a few seconds, the display shows the new setting of the selected talkgroup.

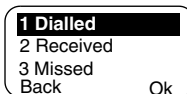


4. To **Rename** the active scan list, enter a new name (alias) and press **Ok**. The display shows the new setting.
5. To **Clear** all talkgroups from the selected scan list, press **Yes**. You will be prompted to remove all talkgroups from the selected scan list. After a few seconds, the display shows the new setting of the selected scan list.

Recent Calls (Menu 8)

You can view the history of all calls:

- Dialed Calls
- Received Calls — calls you answered
- Missed Calls — calls received but not answered, or rejected by the MTM800.

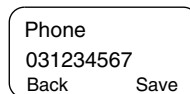
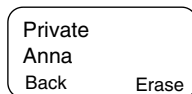
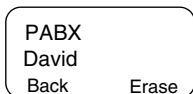


Each list of calls may contain up to 10 numbers for all modes (Phone, PABX, or Private), the more recent call being at the top of the list. Old calls are deleted to make room for new ones, if necessary. A number dialed more than once, will appear only once in the list.

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 **Ok**.
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 75.



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.

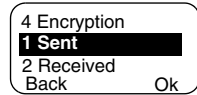
5. After completing the call, the MTM800 will return to the Received/Missed/Dialed list, displaying the called number and allowing you to delete or save the number in the address book.

Location (Menu 9 1)

Refer to “GPS Location Service” on page 68 for details.

Packet Data (Menu 9 2)

This sub-menu 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:



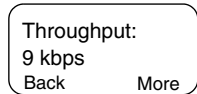
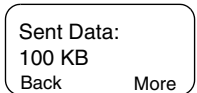
- Amount of sent data,
- Amount of received data,
- Bandwidth of the data session
- Data encryption status.

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 84).

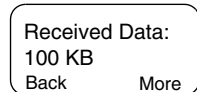
Viewing Sent Data Statistics (Menu 9 2 1)

1. Select **1 Sent** in the Packet Data sub-menu.
2. The number of KBytes sent since current packet data activation is displayed.
3. Press **More**. The throughput is shown in the second screen:
9 kbps (e.g.) — active packet data session.
N.A. — standby packet data session.



Viewing Received Data Statistics (Menu 9 2 2)

1. Select **2 Received** in the Packet Data sub-menu.
2. The number of KBytes received since current packet data activation is displayed.



3. Press **More**. The throughput is shown in the second screen:

9 kbps (e.g.) — active packet data session.

N.A. — standby packet data session.

Throughput:
9 kbps
Back More

Viewing Bandwidth Status (Menu 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%
Back

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.

Viewing Encryption Status (Menu 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
Back

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 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 **Ok** 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*

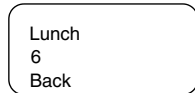
When a new message arrives, the  icon blinks on your display (the icon stops blinking when you enter the Inbox).

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 (Menu 1 1)

1. Switch to the desired talkgroup, to which you want to send a status message.
2. Press **Status** from any mode, or select **Menu** – 1 **Messages** – 1 **Send Sts** – **Ok**.
3. In this example, **Lunch** is the last sent status. 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 **Cancel**. The status message will automatically be displayed on the 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** or  or the relevant one-touch numeric key to send the status message.

If your Service Provider has enabled the Targeted Status feature you will see an additional **SendTo** softkey on the status sending display. Pressing **SendTo** 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 **abc** 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 (**Menu** 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 **Menu** – 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 **Ok** 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

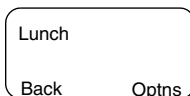
The display shows the incoming message: its number, state (New/Old), sender, and the first line of the text message.






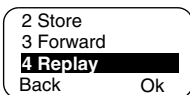
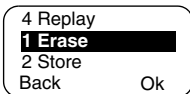
Press one of the following keys:

- The navigation keys to scroll quickly through text messages.
- Select **Read** 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, you can select **Optns** and then one of the following options:



- Scroll to **Erase** and press **Ok** to erase the message. The display shows the next message (if any) or the Messages sub-menu.
- Scroll to **Store** and press **Ok** to store the message as a template in the Template List.
- Scroll to **Forward** and press **Ok** 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** or  to send.
- Scroll to **Reply** and press **Ok** to invoke the Edit Mode. The old message body serves as the default message and the message originator is the destination. Press **PTT** or  to initiate a call to the message originator.



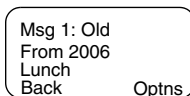
Press **Back** to return to the previous display.

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.

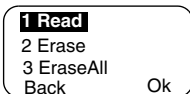
Handling Old Messages

Scroll to one of the old text messages.

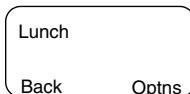


Press **Optns** and scroll to your selection:

1. Scroll to **Read** and press **Ok**, to display the selected old message.



After reading the message, you can select **Optns** and then one of the following options:



- Scroll to **Erase** and press **Ok** to erase the message. When the display shows **Message Erased**, the current message is deleted from the Inbox.



1 Erase
2 Store
 3 Forward
 Back Ok


The display shows the next message (if any) or the Messages sub-menu.

- Scroll to **Store** and press **Ok** to store the message as a template in the Template List.

- Scroll to **Forward** and press **Ok** to invoke the Edit Mode. The old message body serves as the default message and the message originator

2 Store
3 Forward
 4 Reply
 Back Ok

is the destination default. Press **PTT** or  to initiate a call. Enter the recipient's number and press **PTT** or  to send.

- Scroll to **Reply** and press **Ok** to invoke the Edit Mode. The old message body serves as the default message and the message originator is the destination default. Press **PTT** or  to initiate a call to the message originator.


2. Scroll to **Erase** and press **Ok** to erase the message.

3. Scroll to **EraseAll** and press **Ok**, the following message appears:

Erase Inbox?
 No Yes

- Select **Yes** to erase all messages in the Inbox.
- Select **No** 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.

If there is no on-going activity in your MTM800, it will enter the Inbox automatically.

NOTE

For message alert, see settings in the Tones menu option (page 88).

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 (Menu 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 30.


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 . 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 . 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.

1 New
2 Templates
3 Predefined
Back
Ok

Editing, Storing, and Sending a New Message

1. Scroll to **1 New** and press **Ok**. An empty screen will open. You are allowed to type/edit your message using the keypad. Refer to “Editing the Text” on page 15.

2. Press **Optns** and scroll to your selection:

- Scroll to **Send** and press **Ok**.

This is a
new message
edited
Clear Optns

- If set up by your Service Provider you have the option to send the message to a private number or a talkgroup.
- Otherwise select the mail recipient of your choice by scrolling through the address list (see page 76) or enter the address directly.

1 **Privat**
2 Group
Back Ok

Press **Send** or **PTT** or  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 **Ok** 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 **Ok**. The first template in the Template List is displayed.

NOTE

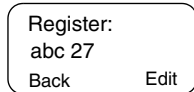
It is possible that the templates numbers are not consecutive.

2. Scroll through the Templates List using the navigation keys and choose the required template.
3. Press **Optns** and scroll to your selection:
 - Scroll to **Send** and press **Ok**.
 - Select the mail recipient of your choice by scrolling through the address list (see page 76) 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 **Ok** to edit the message in the template for your needs.
 - Scroll to **Erase** and press **Ok** 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 **Ok**.
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 **Edit**. The message is now in the predefined message editor.


Register: abc 27 Clear Back
--

4. Enter your message.

- To move the cursor forward – press .
- To move the cursor backward – press .
- Press **Clear** to delete the character to the left of the cursor.

NOTE

A predefined message address is also defined by your Service Provider during programming and cannot be changed.

5. Press **PTT** or  or the relevant one-touch numeric key 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:








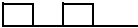


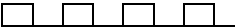



Messages	Message Description
..... Mode List Empty	There are no programmed entries in the scrolling list. Type the entry.
...-Rcvd	Call received but not answered, or rejected.
Attachment Failed	The terminal could not perform talkgroup attachment. Try another talkgroup.
Authenticate Failure	The terminal 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	<ul style="list-style-type: none"> • 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	<ul style="list-style-type: none"> • 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.



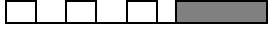



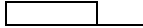
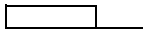

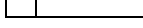
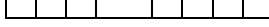



Messages	Message Description
Registration Failure	The terminal could not register within the system. Please try again later. Please contact your Service Provider.
Service Denied	Invalid number. Call your Service Provider.
Service Not Available	This service is not available on the current network.
Service 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		
<ul style="list-style-type: none"> • 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
<ul style="list-style-type: none"> • Good key press • MTM800 self-test fails at power up • From out-of-service to in-service 		Once
In Call		
<ul style="list-style-type: none"> • 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
<ul style="list-style-type: none"> • 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 (Direct Mode) 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
Phone ring, Full-duplex Private Call (reception)	According to the Ring Style sub-menu setting.	Until you answer or the call is rejected

□ = High Tone; ■ = Low Tone

Description	Type	Repeated
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		Twice
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
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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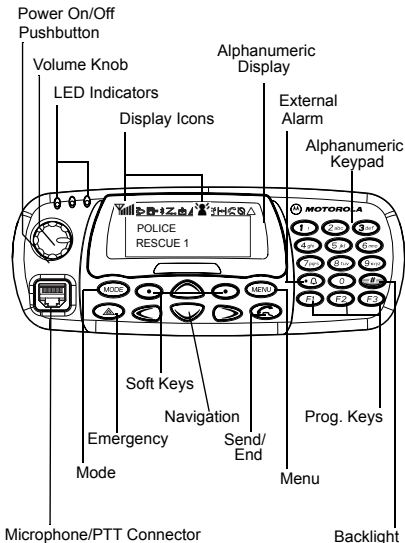
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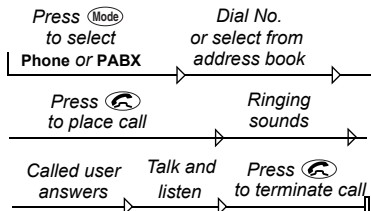
MTM800

Mobile Radio

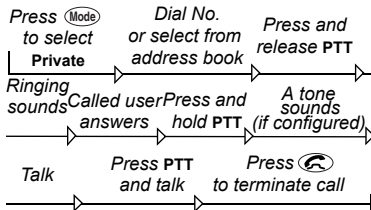
Quick Reference Guide



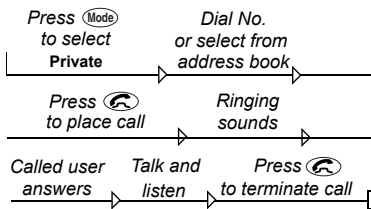
Making a Phone/PABX Call



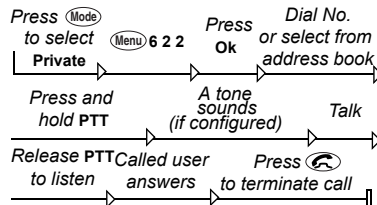
Making a TMO Private Call



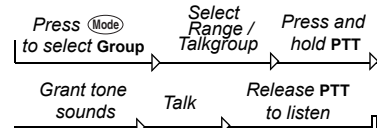
Making a TMO Private Full-duplex Call



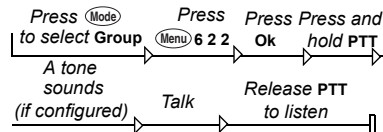
Making a DMO Private Call




Making a TMO Group Call



Making a DMO Group Call



Making a TMO Emergency Group Call


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**.

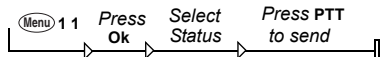
To exit Emergency Mode press and hold **Back**.

Answering a Call

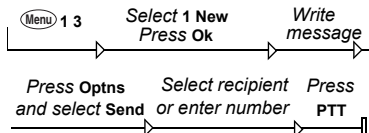
Your MTM800 switches to the mode of the incoming call and starts ringing. To answer the call,

- press  for a Phone or PABX call or
- press **PTT** for all other calls.

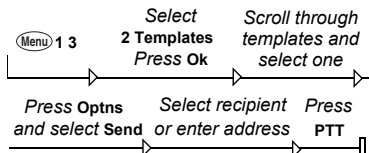
Sending a Status Message



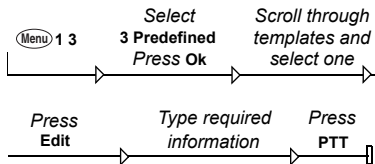
Sending a New Message




Sending a User defined Message



Sending a Predefined Message



Handling New Incoming Text Messages

The  icon will flash on your display and the MTM800 sounds a tone. For

details see the Menu Messages section in the User Guide.





Handling Old Messages






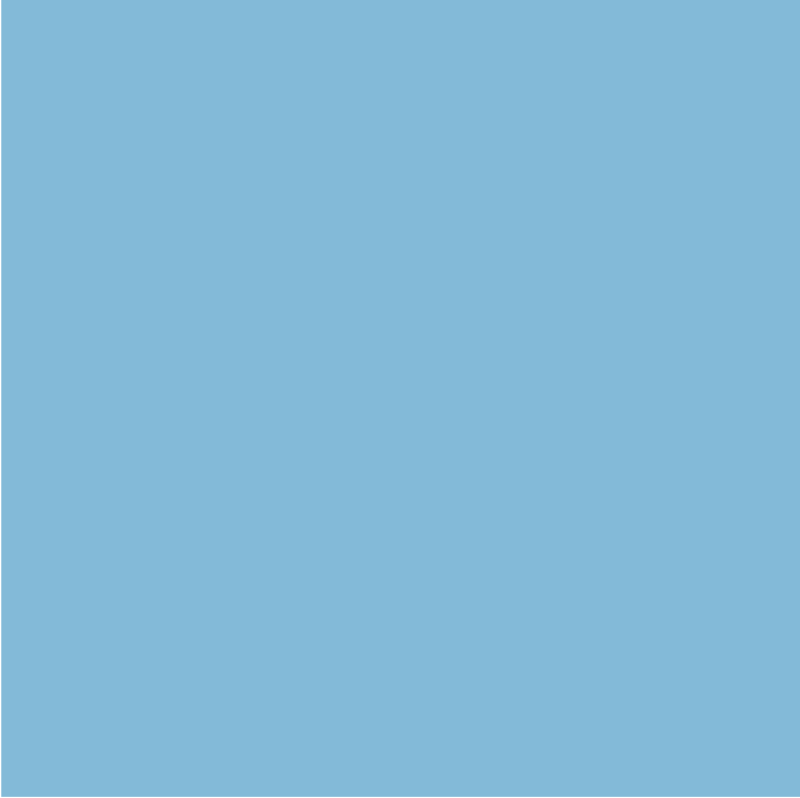
Last Number Redial

In Private Mode, press **PTT** to call the last called number.

In Phone/PABX mode, press  to display last called number, or a list of last called numbers. If list present, scroll to desired number. Press  again to call.

Using the Menu

- Entering the menu: Press .
- Scrolling through the menu: Press  or .
- Selecting a menu option: Press **Ok**.
- Exiting the menu: Press **Back**.



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