



EU Declaration of Conformity (DoC-15092900178-J)

This declaration of conformity is issued under the sole responsibility of the manufacturer. The object of the declaration is in conformity with the relevant Union harmonization legislation:

2014/53/EU Radio Equipment Directive (RED)
2014/34/EU Equipment for Explosive Atmospheres Directive (ATEX)
2011/65/EU Restriction of Hazardous Substances Directive (RoHS)
2012/19/EU Waste Electrical and Electronic Equipment Directive (WEEE)

Object of the Declaration: Tetra Subscribers
MTP8000Ex Series ATEX TETRA

MTP8550Ex, PT951NPEEx, Full Keypad
MTP8500Ex, PT951NMEEx, Limited Keypad

350-470MHz, 25/50kHz, 1-1.8W Tx

National Licensed Frequencies Only

This DoC supersedes DOC-15092900178-I

Placed On The Market By: Motorola Solutions Systems Polska Sp. z o.o., Ul.Czerwone Maki 82, 30-392 Krakow, Poland

Conformity is shown by compliance with the applicable requirements of the following standards:

EN 300 328 V2.2.2
EN 303 413 V1.1.1
EN 302 561 V2.1.1

EN 301 489 - 1 V2.1.1
EN 301 489 - 5 V2.2.1
EN 301 489 - 17 V3.1.1
EN 301 489 - 19 V2.1.1

EN 62368-1:2014+AC:2015+A11:2017
Compliant with the ICNIRP (1998) Occupational / Controlled Exposure Limits
EN 50360:2017
EN 50566:2017

EN IEC 60079-0:2018, EN60079-11:2012

Certificate issued by: DEKRA Testing, and Certification GmbH Dinnendahlstrasse 9, 44809 Bochum Germany
EU Type Examination Certificate: BVS 15 ATEX E 130 X
ATEX Classification: I M2 Ex ib I Mb; II 2G Ex ib IIC T4 Gb; II 2D Ex ib IIIC T90°C Db;
Temperature class T4, Tamb -20°C to +55°C, IP66/67

For the combination of the radio and accessories, refer to the safety manual MN002135A01 for the combined Ex rating.

KRAKOW, 15-NOV-2022

Elektronicznie podpisany
przez Jacek Drabik
Data: 2022.12.12 11:41:22
+01'00'

Jacek Drabik
Country Manager Motorola Solutions Poland,
Ul.Czerwone Maki 82, 30-392 Krakow, Poland

Dr. Jeevan Kanesalingam
Product Safety and Regulatory Compliance,
Motorola Solutions Malaysia Sdn Bhd,
Plot 2A, 11900 Bayan Lepas, Penang, Malaysia

Document Keeper: Motorola Solutions Systems Polska Sp. z o.o., Ul.Czerwone Maki 82, 30-392 Krakow, Poland



Printed in



Refer to the link for the latest
version of this document.

https://learning.motorolasolutions.com/Safety_Leaflets



MN002136A01-AF

**Rev. 1 Addendum to EU Declaration of Conformity (DoC-15092900178-J)**

The listed accessories are approved for use with the object of this declaration.

<u>PART NUMBER</u>	<u>DESCRIPTION (FOR INFORMATION ONLY)</u>
ANTENNA	
PMAE4096A	Antenna, Stubby 350-470MHz
PMAE4097A	Antenna; Stubby 350-470MHz
AUDIO	
GMMN4580A	Savox HC2 dual headset Atex
PMLN6087A	Heavy Duty Headset with over the head headband and boom mic; connects to Peltor PTT Adapter
PMLN6089A	Tactical heavy duty headset with helmet attachment with vol control connects to Peltor PTT Adapter
PMLN6090A	Tactical heavy duty headset with over the head headband with vol control connects to Peltor PTT Adapter
PMLN6092A	Heavy Duty Headset with helmet attachment and boom mic; connects to Peltor PTT Adapter
PMLN6333A	Twin cup Heavy duty headset with helmet attachment boom mic connects to Peltor PTT Adapter
PMLN6803A	Push To Talk adapter Nexus
PMLN7188B	ATEX 3.5mm RX only earpiece
PMLN7257A	SAVOX ATEX IECEX C-C440 LARGE PTT
PMLN7531A	Peltor ATEX Standard Overhead Headset
PMLN7535A	Peltor ATEX Tactical Overhead Band Headset
PMMN4067B	ATEX CSA Remote Speaker Microphone (RSM)
PMMN4093A	ATEX REMOTE SPEAKER MICROPHONE
PMMN4109A	Nextex OMNI RSM
RMN5123A	Savox HC1 Headset Atex
BATTERY	
NNTN8570B	NexTex Refresh Battery
NNTN8570C	IMPRES LIION IECEX/ATEX IP67 1250T
BODYWORN	
PMLN5004B	Shoulder wearing device

**Rev. 1 Addendum to EU Declaration of Conformity (DoC-15092900178-J)**

The listed accessories are approved for use with the object of this declaration.

<u>PART NUMBER</u>	<u>DESCRIPTION (FOR INFORMATION ONLY)</u>
BODYWORN	
PMLN5610A	2.5" Swivel belt loop
PMLN5611A	3.0" Swivel belt loop
PMLN6086A	Belt clip 2.5
PMLN7195A	HARD LEATHER CASE W 2.5" BELT LOOP
PMLN7268A	HARD LEATHER CASE W 3" BELT LOOP

SOFTWARE

The installed radio software is under the full control of the manufacturer with no access by the user and is in compliance with the relevant directives.

Firmware Version: 09130, Codeplug Version: D36.100.9336

EU Declarations of Conformity are available at: <https://www.motorolasolutions.com/emea-compliance>

Electromagnetic Energy (EME) Test Laboratory

Conformity of models listed with occupational Exposure Level Values (ELVs) in Directive 2013/35/EU

This declaration confirms compliance of Motorola Solutions' portable device(s) model(s) with approved accessories

Model Number	Type Designator	Description
MDH16PCF6T25AN	PT951NMEEx	NEXTEX MTP8500Ex, E2EE C3L, 350-470MHz, C3L, 25/50kHz, BT/GPS/GNSS, LKP, optional SIM/SD
MDH17PCH6T25AN	PT951NPEEx	NEXTEX MTP8500Ex, E2EE C3L, 350-470MHz, C3L, 25/50kHz, BT/GPS/GNSS, FKP, optional SIM/SD

with the occupational ICNIRP¹ limits for radio frequency (RF) energy exposure. The ICNIRP guidelines were developed by an independent scientific organization after thorough evaluations of relevant research studies, and have been endorsed by the World Health Organization (WHO). The ICNIRP guidelines are also referenced in the European Directive 2013/35/EU,² forming the basis of the applicable RF exposure framework for workers.

The applicable exposure limit is specified in terms of the Specific Absorption Rate (SAR), measured in units of watts per kilogram (W/kg). SAR tests of these Motorola Solutions devices indicate that they conform with the applicable SAR limits defined in harmonized³ standard EN50360,⁴ and EN50566,⁵ using operating configuration(s) while transmitting at nominal power, with results scaled to the highest certified power level in all tested frequency bands.

SAR tests, performed at a laboratory certified to the ISO/IEC Guide 17025,⁶ show that these Motorola Solutions' portable device model(s), in all tested operating modes (on the body, on the sides of the head, and in front of the face as applicable), at the highest certified power level(s), conform(s) with the ICNIRP limits for professional devices and occupational users,⁷ and both the health and the sensory ELVs defined in Directive 2013/35/EU.⁸

Sincerely,

Tiong
 Digitally signed by Tiong Nguk Ing
 DN: cn=Tiong Nguk Ing,
 email=n.i.tiong@motorolasolution
 s.com, c=US
 Date: 2019.04.03 14:45:16 +08'00'

Tiong Nguk Ing on behalf of Pei Loo Tey
 Penang EME Laboratory Manager
 DATE : 03-APR-2019

¹ICNIRP (1998): International Commission on Non Ionizing Radiation Protection, "Guidelines for Limiting Exposure to Time-Varying Electric, Magnetic, and Electromagnetic Fields (Up to 300 GHz)" Health Physics, vol. 75, no. 4, pp. 494-522.

²Directive 2013/35/EU of the European Parliament and of the Council of 26 June 2013 on the minimum health and safety requirements regarding the exposure of workers to the risks arising from physical agents (electromagnetic fields) (20th individual Directive within the meaning of Article 16(1) of Directive 89/391/EEC) and repealing Directive 2004/40/EC.

³Directive 2014/53/EU of The European Parliament and of the Council of 16 April 2014 on the Harmonisation of the Laws of the Member States Relating to the Making Available on The Market of Radio Equipment and Repealing Directive 1999/5/EC.

⁴EN50360:2017 Product standard to demonstrate the compliance of wireless communication devices, with the basic restrictions and exposure limit values related to human exposure to electromagnetic fields in the frequency range from 300 MHz to 6 GHz: devices used next to the ear.

⁵EN50566:2017 Product standard to demonstrate the compliance of wireless communication devices with the basic restrictions and exposure limit values related to human exposure to electromagnetic fields in the frequency range from 30 MHz to 6 GHz: hand-held and body mounted devices in close proximity to the human body.

⁶ISO/IEC 17025 General requirements for the competence of testing and calibration laboratories.

⁷Implicit whole-body SAR compliance with the 0.4 W/kg limit is shown using the threshold (16.8 W) derived from Table B.1 in EN 62311:2008.

⁸The Specific Absorption (SA) sensory limits defined in Directive 2013/35/EU apply only to ultra-short-pulsed radio-frequency waveforms capable of inducing the microwave hearing effect, e.g., powerful RADAR emissions, but not the Motorola Solutions radio(s) referenced herein.



UK Declaration of Conformity (DoC-15092900178-J)

This declaration of conformity is issued under the sole responsibility of the manufacturer. The object of the declaration is in conformity with the relevant UK legislation:

The Radio Equipment Regulations 2017

The Equipment and Protective Systems Intended for Use in Potentially Explosive Atmospheres Regulations 2016

Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment Regulations 2012

The Waste Electrical and Electronic Equipment Regulations 2013

Object of the declaration: Tetra Subscribers

MTP8000Ex Series ATEX TETRA

MTP8550Ex, PT951NPEEx, Full Keypad

MTP8500Ex, PT951NMEEx, Limited Keypad

350-470MHz, 25/50kHz, 1-1.8W Tx

National Licensed Frequencies Only

This DoC supersedes DOC-15092900178-I

Placed On The Market By: Motorola Solutions UK, 160 Victoria St, London, SW1E 5LB, U.K.

Conformity is shown by compliance with the applicable requirements of the following standards:

EN 300 328 V2.2.2

EN 303 413 V1.1.1

EN 302 561 V2.1.1

EN 301 489 - 1 V2.1.1

EN 301 489 - 5 V2.2.1

EN 301 489 - 17 V3.1.1

EN 301 489 - 19 V2.1.1

EN 62368-1:2014+AC:2015+A11:2017

Compliant with the ICNIRP (1998) Occupational / Controlled Exposure Limits

EN 50360:2017

EN 50566:2017

EN IEC 60079-0:2018, EN60079-11:2012

UKEx Classification: I M2 Ex ib I Mb; II 2G Ex ib IIC T4 Gb; II 2D Ex ib IIIC T90°C Db;

Temperature class T4, Tamb -20°C to +55°C, IP66/67

For the combination of the radios and accessories, refer to the safety manual MN002135A01 for the combined Ex rating.

KRAKOW, 15-NOV-2022

Elektronicznie podpisany
przez Jacek Drabik
Data: 2022.11.22
12:56:45 +01'00'

Jacek Drabik
Country Manager Motorola Solutions Poland,
Ul.Czerwone Maki 82, 30-392 Krakow, Poland

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Product Safety and Regulatory Compliance,
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Plot 2A, 11900 Bayan Lepas, Penang, Malaysia

Document Keeper: Motorola Solutions Systems Polska Sp. z o.o., Ul.Czerwone Maki 82, 30-392 Krakow, Poland

**Rev. 1 Addendum to UK Declaration of Conformity (DoC-15092900178-J)**

The listed accessories are approved for use with the object of this declaration.

(* Non-UK types of power supply plugs can be only used with adaptor complying UKCA regulatory and BS 1363-3 standard.)

<u>PART NUMBER</u>	<u>DESCRIPTION (FOR INFORMATION ONLY)</u>
ANTENNA	
PMAE4096A	Antenna, Stubby 350-470MHz
PMAE4097A	Antenna; Stubby 350-470MHz
AUDIO	
GMMN4580A	Savox HC2 dual headset AteX
PMLN6333A	Twin cup Heavy duty headset with helmet attachment boom mic connects to Peltor PTT Adapter
PMLN6803A	Push To Talk adapter Nexus
PMLN7188B	ATEX 3.5mm RX only earpiece
PMLN7257A	SAVOX ATEX IECEX C-C440 LARGE PTT
PMMN4067B	ATEX CSA Remote Speaker Microphone (RSM)
PMMN4093A	ATEX REMOTE SPEAKER MICROPHONE
PMMN4109A	Nextex OMNI RSM
RMN5123A	Savox HC1 Headset AteX
BATTERY	
NNTN8570B	NexTex Refresh Battery
NNTN8570C	IMPRES LIION IECEX/ATEX IP67 1250T
BODYWORN	
PMLN5004B	Shoulder wearing device
PMLN5610A	2.5" Swivel belt loop
PMLN5611A	3.0" Swivel belt loop
PMLN6086A	Belt clip 2.5
PMLN7195A	HARD LEATHER CASE W 2.5" BELT LOOP
PMLN7268A	HARD LEATHER CASE W 3" BELT LOOP

SOFTWARE

The installed radio software is under the full control of the manufacturer with no access by the user and is in compliance with the relevant UK legislation.

Firmware Version: 09130, Codeplug Version: D36.100.9336

EU-Baumusterprüfbescheinigung

Nachtrag 2

Geräte zur bestimmungsgemäßen Verwendung in explosionsgefährdeten Bereichen
Richtlinie 2014/34/EU

Nr. der EU-Baumusterprüfbescheinigung: **BVS 15 ATEX E 130 X**

Produkt: **Handsprechfunkgerät Typ MTP85**Ex**

Hersteller: **Motorola Solutions Systems Polska Sp.z o.o.**

Anschrift: **Ul. Czerwone Maki 82, 30-392 Krakow, Polen**

Dieser Nachtrag erweitert die EU-Baumusterprüfbescheinigung Nr. BVS 15 ATEX E 130 X um Produkte, die gemäß der Spezifikation in der Anlage der Bescheinigung festgelegt, entwickelt und konstruiert wurden. Die Ergänzungen sind in der Anlage zu diesem Zertifikat und in der zugehörigen Dokumentation festgelegt.

Die Zertifizierungsstelle der DEKRA Testing and Certification GmbH, benannte Stelle Nr. 0158 gemäß Artikel 17 der Richtlinie 2014/34/EU des Europäischen Parlaments und des Rates vom 26. Februar 2014, bescheinigt, dass das Produkt die wesentlichen Gesundheits- und Sicherheitsanforderungen für die Konzeption und den Bau von Produkten zur bestimmungsgemäßen Verwendung in explosionsgefährdeten Bereichen gemäß Anhang II der Richtlinie erfüllt. Die Ergebnisse der Prüfung sind in dem vertraulichen Prüfprotokoll BVS PP 15.2259 EU niedergelegt.

Die wesentlichen Gesundheits- und Sicherheitsanforderungen werden erfüllt unter Berücksichtigung von:


**EN IEC 60079-0:2018
EN 60079-11:2012**

**Allgemeine Anforderungen
Eigensicherheit „i“**

Falls das Zeichen „X“ hinter der Bescheinigungsnummer steht, wird in der Anlage zu dieser Bescheinigung auf besondere Bedingungen für die sichere Anwendung des Produktes hingewiesen.

Diese EU-Baumusterprüfbescheinigung bezieht sich nur auf den Entwurf und Bau der beschriebenen Produkte. Für den Herstellungsprozess und die Abgabe der Produkte sind weitere Anforderungen der Richtlinie zu erfüllen, die nicht durch diese Bescheinigung abgedeckt sind.

Die Kennzeichnung des Produktes muss die folgenden Angaben enthalten:

 **II 2G Ex ib IIC T4 Gb
II 2D Ex ib IIIC T90°C Db
I M2 Ex ib I Mb
IP66/67**

DEKRA Testing and Certification GmbH
Bochum, 02.12.2021


Geschäftsführer



Seite 1 von 5 zu BVS 15 ATEX E 130 X / N2 – Jobnummer 342084100
Dieses Zertifikat darf nur vollständig und unverändert weiterverbreitet werden.

DEKRA Testing and Certification GmbH, Handwerksstraße 15, 70565 Stuttgart
Zertifizierungsstelle: Dinnendahlstraße 9, 44809 Bochum
Telefon +49.234.3696-400, Fax +49.234.3696-401, DTC-Certification-body@dekra.com

- 13 **Anlage zur**
14 **EU-Baumusterprüfbescheinigung**

BVS 15 ATEX E 130 X
Nachtrag 2

- 15 **Beschreibung des Produktes**

- 15.1 **Gegenstand und Typ**

Handsprechfunkgerät Typ MTP85**Ex

Anstelle der ** werden in der vollständigen Benennung Ziffern eingefügt, die die folgenden unterschiedlichen Ausführungen kennzeichnen:

MTP8500Ex	PMUE4803A-PMUE4880A	MTP8500Ex UHF LKP Portable Radio
MTP8500Ex	PMUF1812A-PMUF1859A	MTP8500Ex 800MHz LKP Portable Radio
MTP8550Ex	PMUE4803A-PMUE4880A	MTP8550Ex UHF FKP Portable Radio
MTP8550Ex	PMUF1812A-PMUF1859A	MTP8550Ex 800MHz FKP Portable Radio

- 15.2 **Beschreibung**

Die Handsprechfunkgeräte Typ MTP85**Ex sind tragbare Sprechfunkgeräte, die der Kommunikation im UHF (350 MHz - 470 MHz) Band und im 800 MHz (806 - 870 MHz) Band dienen.

Die Handsprechfunkgeräte werden nur mit der Batterie Typ NNTN8570A -Typ NNTN8570B, Typ NNTN8570C oder Typ NNTN8570CC und mit einer Staubschutzkappe 0104063J98 oder einem der gelisteten Zubehöre betrieben.

An die Handsprechfunkgeräte kann wahlweise eine Antenne des folgenden Typs angeschlossen werden:

Bei den UHF (350 MHz - 470 MHz) Varianten:

Bezeichnung Beschreibung

PMAE4097A Whip 120 mm (350 - 470 MHz)

PMAE4096A Stubby 80 mm (380 - 430 MHz)

Für die Verwendung mit den 800 MHz (806 - 870 MHz) Varianten

PMAF4019A Whip 80 mm (806 - 870 MHz)

An alle gelisteten Antennen kann wahlweise einer der Farbringe

PMLN6285A, PMLN6286A, PMLN6287A, PMLN6288A oder PMLN6289A angebracht werden.

Folgende SD Karten sind für die Verwendung mit den Funkgeräten erlaubt:

SD Karten:

MM000228A01 2GB Industrial Grade MicroSD / MicroSDHC Card

DLN6985A TETRA CRYPTR Micro AES128

DLN9885A TETRA MICRO HSM AES128

DLN6986A TETRA CRYPTR Micro AES256

DLN9886A TETRA MICRO HSM AES256



Seite 2 von 5 zu BVS 15 ATEX E 130 X / N2 – Jobnummer 342084100
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DEKRA Testing and Certification GmbH, Handwerkstraße 15, 70565 Stuttgart
Zertifizierungsstelle: Dinnendahlstraße 9, 44809 Bochum
Telefon +49.234.3696-400, Fax +49.234.3696-401, DTC-Certification-body@dekra.com

Die Handsprechfunkgeräte können mit einer der aufgeführten Ledertaschen / Befestigungen benutzt werden:

Bezeichnung	Beschreibung
PMLN7195A	HARD LEATHER CASE W 2.5" BELT LOOP
PMLN7268A	HARD LEATHER CASE W 3" BELT LOOP
PMLN6086A	ATEX BELT CLIP 2.5 INCH
PMLN5004B	SHOULDER WEARING DEVICE
PMLN5610A	2.5 INCH SWIVEL BELT LOOP
PMLN5611A	3.0 INCH SWIVEL BELT LOOP

An das Handsprechfunkgerät kann das separat bescheinigte Audio Zubehör angeschlossen werden:

Bezeichnung	Beschreibung	Zertifikat
PMLN6047A	Audio Adapter	IECEX BVS 12.0049X BVS12 ATEX E 074 X
PMMN4067B	REMOTE SPEAKER MICROPHONE	IECEX BVS 12.0016X BVS 12 ATEX E 027X
FL4063-50-34 (PMLN6803A)	PTT Adapter for use with headset and radio	IECEX NEM 13.0001X Nemko13ATEX1521X
PMMN4093A	ANC RSM Ex 16 ohm Std Cbl	IECEX BVS 15.0047X BVS 15 ATEX E 054 X
PMMN4101A	ANC RSM Ex 16 ohm Long Cbl	IECEX BVS 15.0047X BVS 15 ATEX E 054 X
PMMN4109A	IMPRES EX OMNI RSM STD CBL/NEX/16OHM	IECEX BVS 15.0047X BVS 15 ATEX E 054 X
PMMN4112A	IMPRES EX OMNI RSM LONG CBL/NEX/16OHM	IECEX BVS 15.0047X BVS 15 ATEX E 054 X
C-C440Ex (PMLN7257A)	Com-Control Unit	IECEX VTT 15.0019X VTT 15 ATEX 061X

Die folgenden Zubehöre können an das PMLN6803A, PMMN4093A, PMMN4101A, PMMN4109A oder an das PMMN4112A angeschlossen werden.

MT7H79F-50 (PMLN6087A)	Standard Headset, with Microphone and Speaker	IECEX NEM 09.0004X Nemko 09 ATEX1114X
MT7H79P3E-50 (PMLN6092A)	Standard Headset, with Microphone and Speaker	IECEX NEM 09.0004X Nemko 09 ATEX1114X
MT72H540P3E-50 Twin cup (PMLN6333A)	Headset with Microphone and Speaker	IECEX NEM 09.0005X Nemko 09 ATEX1119X
MT1H7F2-07-51 (PMLN6090A)	Headset Series, Tactical XP	IECEX NEM 11.0010X Nemko 10 ATEX1029X
MT1H7P3E2-07-51 (PMLN6089A)	Headset Series, Tactical XP	IECEX NEM 11.0010X Nemko 10 ATEX1029X



Seite 3 von 5 zu BVS 15 ATEX E 130 X / N2 – Jobnummer 342084100
Dieses Zertifikat darf nur vollständig und unverändert weiterverbreitet werden.

DEKRA Testing and Certification GmbH, Handwerkstraße 15, 70565 Stuttgart
Zertifizierungsstelle: Dinnendahlstraße 9, 44809 Bochum
Telefon +49.234.3696-400, Fax +49.234.3696-401, DTC-Certification-body@dekra.com

MT1H7B2-07- 51 Tactical XP Headset Neckband
(PMLN7535A)

Nemko 10 ATEX1029X
IECEX NEM11.0010X

Das Zubehör, die Antennen und die Batterie Typ NNTN8570A oder Typ NNTN8570B oder Typ NNTN8570C oder Typ NNTN8570CC werden nur außerhalb der explosionsgefährdeten Atmosphäre mit dem Handsprechfunkgerät verbunden.

Der zulässige Umgebungstemperaturbereich des Handsprechfunkgerätes und der Batterie Typen NNTN8570A, NNTN8570B, NNTN8570C oder Typ NNTN8570CC beträgt $-20^{\circ}\text{C} \leq T_a \leq +55^{\circ}\text{C}$.

Die Batterien Typen NNTN8570A, NNTN8570B, NNTN8570C oder NNTN8570CC wird nur außerhalb der explosionsgefährdeten Atmosphäre mit den im Motorola Dokument: MN002135A01 gelisteten Ladegeräten verwendet.

Die SD Karten werden nur außerhalb der explosionsgefährdeten Atmosphäre gewechselt.

Grund des Nachtrags:

- Änderung des Zertifikatsinhabers von Motorola Solutions Germany GmbH auf Motorola Solutions Systems Polska Sp.z o.o.
- Aktualisierung der Norm IEC 60079-0 auf IEC 60079-0:2017
- Einführung der neuen Batterietypen NNTN8570C und NNTN8570CC
- Einführen des neuen Audioadapters PMLN6047A
- Einführung weiterer SD Karten
- Einführen neuer Ladegeräte
- Geringfügige Änderungen an den Batterien NNTN8570A und NNTN8570B
- Geringfügige Änderungen an der mechanischen Konstruktion und der Schaltung der Funkgeräte
- Update der Label

15.3 Kenngrößen

15.3.1 Elektrische Daten

15.3.1.1 Frequenzbereiche

MTP8500Ex/MTP8550Ex	UHF	350-470	MHz
MTP8500Ex/MTP8550Ex	800 MHz	806-870	MHz

15.3.1.2 Senderausgangsleistung

2 W maximal (ib)

15.3.1.3 Betriebsspannung (NNTN8570A, NNTN8570B, NNTN8570C und NNTN8570CC)

Nennwert	U_n	7,6	V
Spitzenwert	U_o	8,4	V

15.3.1.4 Audioadapter PMMLN6047A

Angeschlossen an Funkgeräte vom Typ MTP85**Ex ergeben sich die folgenden

Ausgangsparameter (Pin R1-R8, Ex ib)

Spitzenwert	U_o	8,4	V
Max Ausgangsstrom	I_o	75	mA DC
Max Ausgangsleistung (lineare Kennlinie)	P_o	0,314	W
Anschließbare effektive Kapazität	C_o	0,1	µF
Anschließbare effektive Induktivität	L_o	2	mH

15.3.2 Umgebungstemperaturbereich

$-20^{\circ}\text{C} \leq T_a \leq +55^{\circ}\text{C}$

15.3.3 Gehäuseschutzart

IP66/67



Seite 4 von 5 zu BVS 15 ATEX E 130 X / N2 – Jobnummer 342084100
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16 Prüfprotokoll

BVS PP 15.2259 EU, Stand 02.12.2021

17 Besondere Bedingungen für die Verwendung

Das Funkgerät, die Batterie und die Zubehörteile sind gegen niedrige Schlagenergien geschützt bei Verwendung in Gruppe I explosionsgefährdeten Umgebungen.

Das Wechseln, Abnehmen oder Laden der Batterie ist nur außerhalb der explosionsgefährdeten Umgebung erlaubt.

Es dürfen nur die in dem Dokument MN002135A01 gelisteten Ladegeräte und Zubehörteile verwendet werden.

Zubehörteile dürfen nur außerhalb der explosionsgefährdeten Umgebung angeschlossen oder gewechselt werden.

Wenn die Ladekontrollanzeigen des Ladegerätes konstant eine defekte Batterie anzeigen oder von den in der Bedienungsanleitung des Ladegerätes gelisteten gültigen Anzeigen abweichen, darf diese Batterie nicht mehr in explosionsgefährdeten Umgebungen eingesetzt werden.

Die SD Karte darf nur außerhalb der explosionsgefährdeten Umgebung gewechselt werden.

In der explosionsgefährdeten Umgebung muss entweder die Staubschutzkappe oder eines der in dem Dokument MN002135A01 gelisteten Zubehörteile angeschlossen sein.

Die Batterie muss im explosionsgefährdeten Bereich immer an ein Funkgerät angeschlossen sein.

18 Wesentliche Gesundheits- und Sicherheitsanforderungen

Die wesentlichen Gesundheits- und Sicherheitsanforderungen sind durch die unter Abschnitt 9 gelisteten Normen abgedeckt.

19 Zeichnungen und Unterlagen

Die Zeichnungen und Unterlagen sind in dem vertraulichen Prüfprotokoll gelistet.

Translation

EU-Type Examination Certificate Supplement 2

Equipment intended for use in potentially explosive atmospheres
Directive 2014/34/EU

EU-Type Examination Certificate Number: **BVS 15 ATEX E 130 X**

Product: **Radio telephone type MTP85**Ex**

Manufacturer: **Motorola Solutions Systems Polska Sp.z o.o.**

Address: **Ul. Czerwone Maki 82, 30-392 Krakow, Poland**

This supplementary certificate extends EU-Type Examination Certificate No. BVS 15 ATEX E 130 X to apply to products designed and constructed in accordance with the specification set out in the appendix of the said certificate but having any acceptable variations specified in the appendix to this certificate and the documents referred to therein.

DEKRA Testing and Certification GmbH, Notified Body number 0158, in accordance with Article 17 of Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014, certifies that this product has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of products intended for use in potentially explosive atmospheres given in Annex II to the Directive.

The examination and test results are recorded in the confidential Report No. BVS PP 15.2259 EU.

The Essential Health and Safety Requirements are assured in consideration of:

**EN IEC 60079-0:2018
EN 60079-11:2012**

**General requirements
Intrinsic Safety "i"**

If the sign "X" is placed after the certificate number, it indicates that the product is subject to the Special Conditions for Use specified in the appendix to this certificate.

This EU-Type Examination Certificate relates only to the design and construction of the specified product. Further requirements of the Directive apply to the manufacturing process and supply of this product. These are not covered by this certificate.

The marking of the product shall include the following:

**II 2G Ex ib IIC T4 Gb
II 2D Ex ib IIIC T90°C Db
I M2 Ex ib I Mb
IP66/67**

DEKRA Testing and Certification GmbH
Bochum, 2021-12-02

Signed: Jörg-Timm Kilisch

Managing Director



Page 1 of 5 of BVS 15 ATEX E 130 X / N2 – Jobnumber 342084100
This certificate may only be reproduced in its entirety and without any change.

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13 Appendix

14 EU-Type Examination Certificate

BVS 15 ATEX E 130 X Supplement 2

15 Product description

15.1 Subject and type

Radio telephone type MTP85**Ex

Instead of the ** in the complete denomination numerals will be inserted which characterize the following modifications:

MTP8500Ex	PMUE4803A-PMUE4880A	MTP8500Ex UHF LKP Portable Radio
MTP8500Ex	PMUF1812A-PMUF1859A	MTP8500Ex 800MHz LKP Portable Radio
MTP8550Ex	PMUE4803A-PMUE4880A	MTP8550Ex UHF FKP Portable Radio
MTP8550Ex	PMUF1812A-PMUF1859A	MTP8550Ex 800MHz FKP Portable Radio

15.2 Description

The radio telephones type MTP85**Ex are portable 2-way radios that serve communication in the UHF (350 MHz - 470 MHz) and 800 MHz (806 MHz - 870 MHz) band.

The radios telephones are only used with the battery types NNTN8570A, NNTN8570B, NNTN8570C or type NNTN8570CC and the dust cover with the part number 0104063J98 or one of the approved accessories.

The antennas listed below can be connected to the radio telephones.

For use with the UHF (350 MHz – 470 MHz) versions

Part No	Description
PMAE4097A	Whip 120 mm (350 MHz - 470 MHz)
PMAE4096A	Stubby 80 mm (380 MHz - 430 MHz)

For use with the 800MHz (806 MHz – 870 MHz) versions

Part No	Description
PMAF4019A	Whip 80 mm (806 MHz - 870 MHz)

Optionally one of the color rings PMLN6285A, PMLN6286A, PMLN6287A, PMLN6288A or PMLN6289A can be attached to all the antennas listed above.

The following SD cards are allowed for use with the radio telephones

SD Card

MM000228A01	2GB Industrial Grade MicroSD/MicroSDHC Card
DLN6985A	TETRA CRYPTR Micro AES128
DLN9885A	TETRA MICRO HSM AES128
DLN6986A	TETRA CRYPTR Micro AES256
DLN9886A	TETRA MICRO HSM AES256



The following carry devices can be used with the radio telephones:

Part No	Description
PMLN7195A	HARD LEATHER CASE W 2.5" BELT LOOP
PMLN7268A	HARD LEATHER CASE W 3" BELT LOOP
PMLN6086A	ATEX BELT CLIP 2.5 INCH
PMLN5004B	SHOULDER WEARING DEVICE
PMLN5610A	2.5 INCH SWIVEL BELT LOOP
PMLN5611A	3.0 INCH SWIVEL BELT LOOP

The following separately certified accessories can be used with the radio telephone:

Part No	Description	Certificate
PMLN6047A	Audio Adapter	IECEX BVS 12.0049X BVS12 ATEX E 074 X
PMMN4067B	REMOTE SPEAKER MICROPHONE	IECEX BVS 12.0016X BVS 12 ATEX E 027 X
FL4063-50-34 (PMLN6803A)	PTT Adapter for use with headset and radio	IECEX NEM 13.0001X Nemko 13ATEX1521X
PMMN4093A	ANC Remote speaker microphone	IECEX BVS 15.0047 X BVS 15 ATEX E 054 X
PMMN4101A	ANC RSM Ex 16 ohm Long Cbl	IECEX BVS 15.0047X BVS 15 ATEX E 054 X
PMMN4112A	IMPRES EX OMNI RSM LONG CBL/NEX/16OHM	IECEX BVS 15.0047X BVS 15 ATEX E 054 X
C-C440Ex (PMLN7257A)	Com-Control Unit	IECEX VTT 15.0019X VTT 15 ATEX 061X

The accessory kits listed below can be connected to PMLN6803A, PMMN4093A, PMMN4101A, PMMN4109A or PMMN4112A.

MT7H79F-50 (PMLN6087A)	Standard Headset, with Microphone and Speaker	IECEX NEM 09.0004X Nemko 09 ATEX1114X
MT7H79P3E-50 (PMLN6092A)	Standard Headset, with Microphone and Speaker	IECEX NEM 09.0004X Nemko 09 ATEX1114X
MT72H540P3E-50 (PMLN6333A)	Headset with Microphone and Speaker, Twin cup	IECEX NEM 09.0005X Nemko 09 ATEX1119X
MT1H7F2-07-51 (PMLN6090A)	Headset Series, Tactical XP	IECEX NEM 11.0010X Nemko 10 ATEX1029X
MT1H7P3E2-07-51 (PMLN6089A)	Headset Series, Tactical XP	IECEX NEM 11.0010X Nemko 10 ATEX1029X
MT1H7B2-07-51 (PMLN7535A)	Tactical XP Headset Neckband	Nemko 10 ATEX1029X IECEX NEM11.0010X

The accessories, the antennas and the battery type NNTN8570A or type NNTN8570B or type NNTN8570C or type NNTN8570CC can only be connected or disconnected outside the potentially hazardous environment.

The ambient temperature range for the radio telephones and the battery types NNTN8570A, NNTN8570B, NNTN8570C or type NNTN8570CC is $-20^{\circ}\text{C} \leq T_a \leq +55^{\circ}\text{C}$.

Only chargers listed in the Motorola safety instruction MN002135A01 can be used with the battery types NNTN8570A, NNTN8570B, NNTN8570C or type NNTN8570CC outside the potentially hazardous environment.

The SD cards can only be changed outside the potentially hazardous environment

Reason for the supplement:

- Change of owner of the certificate from Motorola Solutions Germany GmbH to Motorola Solutions Systems Polska Sp.z o.o.
- Update from the standard IEC 60070-0 to IEC 60079-0:2017
- Introduction of the new battery type NNTN8570C and NNTN8570CC
- Introduction of the new audio adapter PMLN6047A
- Introduction of new SD cards
- Small changing at the construction of the battery type NNTN8570A and NNTN8570B
- Inclusion of additional chargers in the manual
- Small changing at the mechanical construction and at the electronic circuit of the radio
- Update of the label

15.3 Parameters

15.3.1 Electrical data

15.3.1.1 Frequency range

MTP8500Ex/MTP8550Ex	UHF	350 - 470	MHz
MTP8500Ex/MTP8550Ex	800 MHz	806 - 870	MHz

15.3.1.2 Radio output power

2 W maximal (ib)

15.3.1.3 Supply Voltage (NNTN8570A, NNTN8570B, NNTN8570C and NNTN8570CC)

Nominal	U_n	7.6	V
Peak open voltage	U_o	8.4	V

15.3.1.4 Audio Adapter PMMLN6047A

Connected to the radio telephone of type MTP85**Ex the following output parameters are realized (Pin R1-R8, Ex ib)

Peak Value	U_o	8.4	V
max output current	I_o	75	mA DC
max output power (linear characteristic)	P_o	0.314	W
max effective capacitance	C_o	0.1	uF
max effective inductance	L_o	2	mH

15.3.2 Ambient temperature range

$-20^{\circ}\text{C} \leq T_a \leq +55^{\circ}\text{C}$

15.3.3 Ingress protection

IP66/67

16 Report Number

BVS PP 15.2259 EU, as of 2021-12-02

17 Special Conditions for Use

The radio telephone, the battery and the accessories are only protected against low risk of mechanical danger for Group I applications.

Changing, detaching or charging of the battery is only allowed outside the hazardous area.

Only accessories and chargers listed in the document MN002135A01 shall be used.

It is only allowed to disconnect or change accessories outside the hazardous area.

In case the charge indicator lights at the charger consistent by show a defective battery or conditions other than listed in the manual of the chargers the equipment is not allowed to be used in a hazardous area any longer.

The SD card shall only be changed outside the hazardous area.

In the hazardous environment either the dust cover 0104063J98 or one of the accessories listed in the document MN002135A01.

Inside hazardous areas, the battery must always be connected to a radio.

18 Essential Health and Safety Requirements


The Essential Health and Safety Requirements are covered by the standards listed under item 9.

19 Drawings and Documents

Drawings and documents are listed in the confidential report.

We confirm the correctness of the translation from the German original.
In the case of arbitration only the German wording shall be valid and binding.

DEKRA Testing and Certification GmbH
Bochum, 2021-12-02
BVS-Ha/Mu A20201080



Managing Director



Page 5 of 5 of BVS 15 ATEX E 130 X / N2 – Jobnumber 342084100
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