



Declaration of Conformity (DOC-15092900178-A)

Motorola Solutions declares under its sole responsibility that the products, to which this declaration relates, conform to the applicable essential requirements of the following Directives(s) of the Council of the European Community on the approximation of the laws of the Member States:

1999/5/EC on Radio Equipment and Telecommunications Terminal Equipment
94/9/EC (Explosive Atmosphere Directive), including all amendments
2011/65/EU on RoHS-2 for Restriction of the use of Hazardous Substances
2012/19/EU WEEE Waste Electrical and Electronic Equipment

Product: Dimetra Portable MTP8500Ex, MTP8550Ex for TETRA National Licenced Frequencies only

Description:

MTP8550Ex, 350-470MHz, 25/50kHz, 1-1.8W TX, Full Keypad, with Type Designator PT951NPEEX
MTP8500Ex, 350-470MHz, 25/50kHz, 1-1.8W TX, Limited Keypad, with Type Designator PT951NMEXX

Placed on Market by: Motorola Solutions Germany GmbH, D-13507 Berlin, Germany

Conformity:

Radio Equipment, Article 3(2):

EN 300 394 - 1 V2.3.1, EN 302 561 - V1.3.2, EN 300 328 V1.8.1
EN 303 035 - 1 V1.2.1, EN 303 035 - 2 V1.2.2

EMC, Article 3(1)b):

EN 301 489 - 1 V1.9.2, EN 301 489 - 17 V2.2.1, EN 301 489-18 V1.3.1
Radiated emissions: EN 300 394 - 1 V2.3.1, EN 302 561 - V1.3.2, EN 300 328 V1.8.1,

Safety, Article 3(1)a):

EN 60950-1:2006/A11:2009/A1:2010/A12:2011/AC:2011/A2:2013
Compliant with the ICNIRP (1998) Occupational / Controlled Exposure Limits

ATEX, Article 1(2):

EN 60079-0:2012 +A11:2013, EN60079-11:2012

Year of first application of CE mark: 2015

ATEX Notified Body Number 0158; DEKRA EXAM GmbH, Dinnendahlstr. 9, 44809 Bochum, Germany
EC Type Examination Certificate: BVS 15 ATEX E 130 X
ATEX Classification: I M2 Ex ib I Mb; II 2G Ex ib IIC T4 Gb, ib; II 2D Ex ib IIIC T90°C Db;
Temperature class T4, Tamb -20°C to +55°C, IP66/67

The essential radio test suites, as defined in the quoted harmonized standards, have been performed.

BERLIN, 11-DEC-2015

Andreas Scheunemann
Managing Director Motorola Solutions Germany GmbH,
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MN002136A01-AA

Rev. 1 Addendum to Declaration of Conformity (DOC-15092900178-A)

This declaration of conformity is an addendum to above referenced product DoC and is issued under the sole responsibility of the manufacturer.

The accessories described below are in conformity with the relevant Union harmonisation legislation. The listed accessories are certified and approved for use with the radios listed in the referenced DoC.

ANTENNA

PMAE4096A 350-470MHZ

PMAF4019A 350-470MHZ

AUDIO

PMMN4093A ATEX REMOTE SPEAKER MICROPHONE

BATTERY

NNTN8570A ATEX IMPRES LI ION BATTERY

The above accessories are shown with their global part numbers. In practice the accessory will have a regional prefix. Prefixes are purely done for regional killings - primarily the manual (languages) and packaging. Prefixes are MD for European countries, AA of United States and AZ for Asia/Pacific region.

Note: A copy of the above referenced signed and dated Declaration of Conformity can be obtained either via your local Motorola help desk, via your dealer from where you purchased this radio or alternatively you can send an email request to manufacturerdeclaration.eu@motorolasolutions.com, or via <http://www.motorolasolutions.com/Business/XU-EN/BMS+Resource+Library>


Translation

(1) EC-Type Examination Certificate

- (2) Equipment and protective systems intended for use in potentially explosive atmospheres - Directive 94/9/EC
- (3) No. of EC-Type Examination Certificate: **BVS 15 ATEX E 130 X**
- (4) Equipment: **Radiotelephone type MTP8***Ex**
- (5) Manufacturer: **Motorola Solutions Germany GmbH**
- (6) Address: **Am Borsigturm 130, 13507 Berlin, Germany**
- (7) The design and construction of this equipment and any acceptable variation thereto are specified in the appendix to this type examination certificate.
- (8) The certification body of DEKRA EXAM GmbH, notified body no. 0158 in accordance with Article 9 of the Directive 94/9/EC of the European Parliament and the Council of 23 March 1994, certifies that this equipment has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment and protective systems intended for use in potentially explosive atmospheres, given in Annex II to the Directive. The examination and test results are recorded in the Test and Assessment Report BVS PP 15 2259 EG.
- (9) The Essential Health and Safety Requirements are assured by compliance with:

EN 60079-0:2012 + A11:2013 General requirements
EN 60079-11:2012 Intrinsic Safety "I"

- (10) If the sign "X" is placed after the certificate number, it indicates that the equipment is subject to special conditions for safe use specified in the appendix to this certificate.
- (11) This EC-Type Examination Certificate relates only to the design, examination and tests of the specified equipment in accordance to Directive 94/9/EC. Further requirements of the Directive apply to the manufacturing process and supply of this equipment. These are not covered by this certificate.
- (12) The marking of the equipment shall include the following:

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

DEKRA EXAM GmbH
 Bochum, dated 2015-12-11

Signed: Simanski

Certification body

Signed: U. Hauke

Special services unit

- (13) Appendix to
 (14) **EC-Type Examination Certificate**
BVS 15 ATEX E 130 X
 (15) 15.1 Subject and type

Radiotelephone type MTP8***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 MTP8***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 are only used with the battery NNTN8570A and the dust cover with the part number 0104063J09 or one of the approved accessories.

The antennas listed below can be connected to the radios.

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)

The following SD cards are allowed for use with the radios

SD Card	
MM000228A01	2GB Industrial Grade MicroSD/MicroSDHC Card
DLN080GA	TETRA CRYPTR Micro AES128
DLN9886A	TETRA CRYPTR Micro AES256

The following carry devices can be used with the radios:

Part No	Description
PMLN7195A	HARD LEATHER CASE W 2.5" BELT LOOP
PMLN7268A	HARD LEATHER CASE W 3" BELT LOOP
PMLN5086A	ATEX BELT CLIP 2.5 INCH
PMLN5048B	SHOULDER WEARING DEVICE
PMLN5610A	2.5 INCH SWIVEL BELT LOOP
PMLN5611A	3.0 INCH SWIVEL BELT LOOP

Page 2 of 4 of BVS 15 ATEX E 130 X

This certificate may only be reproduced in its entirety and without any change.



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 0049(0)201 494 234 3500-105, Fax: +49 201 234 3500-110, 25-63899@dekra.com

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

Part No	Description	Certificate
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 Issue 2 Nemko13ATEX1521X Issue 2
PMMN4093A	ANC Remote speaker microphone	IECEx BVS 15.0047 X BVS 15 ATEX E 054 X
C-C440Ex (PMLN7257A)	Com-Control Unit	IECEx VTT 15.0019X Issue 1 VTT 15 ATEX 051X Issue 1

The accessory kits listed below can be connected to PMLN6803A and PMMN4093A.

MT7H79F-50 (PMLN6087A)	Standard Headset, with Microphone and Speaker	IECEx NEM 09.0004X Issue 2 Nemko 09 ATEX1114X Issue 2
MT7H79P3E-50 (PMLN6092A)	Standard Headset, with Microphone and Speaker	IECEx NEM 09.0004X Issue 2 Nemko 09 ATEX1114X Issue 2
MT7H540P3E-50 (PMLN6333A)	Headset with Microphone and Speaker, Twin cup	IECEx NEM 09.0005X Issue 2 Nemko 09 ATEX1119X Issue 2
MT1H7F2-07-51 (PMLN6090A)	Headset Series, Tactical XP	IECEx NEM 11.0010X Issue 1 Nemko 10 ATEX1029X Issue 2
MT1H7P3E2-07-51 (PMLN6099A)	Headset Series, Tactical XP	IECEx NEM 11.0010X Issue 1 Nemko 10 ATEX1029X Issue 2

The accessories, the antennas and the battery can only be connected or disconnected outside the potentially hazardous environment.

The ambient temperature range for the radios and the battery NNTN8570A is $-20\text{ °C} \leq T_a \leq +55\text{ °C}$.

Only chargers listed in the Motorola safety instruction MN002135AD1 can be used with the battery NNTN8570A outside the potentially hazardous environment.

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



15.3 Parameters

15.3.1. Electrical data

15.3.1.1 Frequency range

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

15.3.1.2 Radio output power

2 W maximal (ib)

15.3.1.3 Supply Voltage (NNTN8570A)

Nominal:	Un	7.6	V
Peak open Voltage:	Uo	8.4	V

15.3.2 Ambient temperature range

-20 °C ≤ Ta ≤ +55 °C

15.3.3 Ingress protection

IP68/67

(16) Test and Assessment Report

BVS PP 15.2259 EG as of 2015-12-11

(17) Special conditions for safe use

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

Only the chargers listed in the user manual MNO02136A01 shall be used.

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.

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 EXAM GmbH
44009 Bochum, 2015-12-11
BVS-Hilfsmu A 20130051

Certification body

Special services unit

