MOTOROLA SOLUTIONS

EU Declaration of Conformity (DoC-15101300182-D)

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
2014/34/EU ATEX (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
2013/35/EU on Occupational Exposure to Electromagnetic Fields
1999/5/EC on Radio Equipment and Telecommunications Terminal Equipment (Non-RED Countries)

Object of the Declaration: MOTOTRBO DP4000 Ex Ma ATEX Portable Radios Series

DP4801 Ex Ma, Type Designator: PBE502HEMaGEx, 403-470MHz, TX 1W, full keypad, display
DP4401 Ex Ma, Type Designator: PBE502BEMaGEx, 403-470MHz, TX 1W, plain

Superseded Remarks: This DoC supersedes DOC-15101300182-C

Manufacturer: Motorola Solutions Germany GmbH , Am Borsigturm 130, 13507 Berlin, Germany

Conformity:

Radio Equipment, Article 3(2):

RED:
EN 300 086 V2.1.2,
EN 300 113-2 V2.2.1,
EN 300 219-2 V2.1.1
RTTE:
EN 300 086 - 1 V1.4.1, EN 300 086 - 2 V1.3.1
EN 300 113 - 1 V1.7.1, EN 300 113 - 2 V1.5.1
EN 300 219 - 1 V1.2.1, EN 300 219 - 2 V1.1.1

EMC, Article 3(1)b:

EN 301 489-1 V1.9.2,
EN 301 489-5 V1.3.1

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
EN 62311:2008

ATEX, Article 1(2):

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

Year of first application of CE mark: 2015

EC Type Examination Certificate: BVS 15 ATEX E115 X
ATEX classification: II 2G Ex ib IIC T4 Gb; II 2D Ex ib IIIC T130°C Db; I M1 Ex ia I Ma; IP64

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

BERLIN, 17-JUL-2017

Andreas Scheunemann
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MOTOROLA SOLUTIONS

Rev. 1 Addendum to EU Declaration of Conformity (DoC-15101300182-D)

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	
PMAE4081A	DMR folded monopole (403 - 433MHZ) Ex
PMAE4082A	DMR folded monopole (430 - 470MHZ) Ex
PMAE4083A	Stubby antenna 11cm (403 - 433MHZ) Ex
PMAE4084A	Stubby antenna 11cm (430 - 470MHZ) Ex
PMAE4085A	DMR whip antenna (403 - 470MHZ) Ex
AUDIO	
PMLN6089A	PELTOR HEADSET MT1H7P3E2-07-51
PMLN6090A	PELTOR HEADSET MT1H7F2-07-51
PMMN4094A	Noise Cancelling ATEX RSM
BATTERY	
NNTN8840A	IMPRES IECEx/ATEX Ma IP67 LIION 2000T
BODYWORN	
PMLN5610A	Replacement 2.5 inch Swivel Belt Loop
PMLN6086A	Belize ATEX Belt Clip
PMLN6096A	Hard Leather Carry Case 2.5-Inch Swivel Belt Loop for Non-Keypad Radio
PMLN6097A	Belize ATEX Hard Leather Carry Case 2.5 SWL FKP
PMLN6098A	Soft Leather Carry Case 2.5-Inch Swivel Belt Loop for Non-Keypad Radio
PMLN6099A	Belize ATEX Soft Leather Carry Case 2.5 SWL FKP
OTHERS	
15012157001	Dust Cover Assembly
PMLN6368A	ADAPTER FOR PELTOR HEADSET FL5263-34
PMLN6803A	Adapter for Peltor Headset FL4963-50-34

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.

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 kittings - primarily the manual (languages) and packaging. Prefixes are MD for European countries, AA of United States and AZ for Asia/Pazific 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

MOTOROLA SOLUTIONS

ACCREDITED
TESTING CERT # 2518.05

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 radio(s) model(s) with approved accessories

Model Number	Type Designator	Description
MDH56QCC9QA5AN	PBE502BEMaGEx	Belize ATEX M1 UHF 403-470 MHz, 1W, GOB, plain
MDH56QCN9QA5AN	PBE502HEMaGEx	Belize ATEX M1 UHF 403-470 MHz, 1W, GOB, Full keypad, display

with the ICNIRP[1] 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 radio-frequency 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 Motorola Solutions radios were conducted in accordance with harmonised[3] standard EN 62311:2008,[4] using standard operating configuration for the device(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,[5] show that said Motorola Solutions' portable radio 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,[6] and both the health and the sensory ELVs defined in Directive 2013/35/EU.[7]

Sincerely,

Tiong Nguk Ing

Digitally signed by Tiong Nguk Ing
DN: cn=Tiong Nguk Ing, o=Motorola Solutions, ou=Regulatory Compliance Lab, email=n.l.tiong@motorolasolutions.com, c=MY
Date: 2017.07.14 23:38:29 +08'00'

Tiong Nguk In on behalf of Pei Loo Tey
Penang EME Laboratory Manager
DATE : 14-JUL-2017

[1] ICNIRP (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.
[2] Directive 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.
[3] European Commission communication in the framework of the implementation of Directive 1999/5/EC of the European Parliament and of the Council on radio equipment and telecommunications terminal equipment and the mutual recognition of their conformity. Official Journal of the European Union 2016/C 249/01.
[4] EN 62311:2008 Assessment of electronic and electrical equipment related to human exposure restrictions for electromagnetic fields (0 Hz - 300 GHz). Although the standard is defined for the general public, it provides guidance for occupational exposures in Annex B.
[5] ISO/IEC 17025:2005. General requirements for the competence of testing and calibration laboratories.
[6] Implicit 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.
[7] The 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.