



## EU Declaration of Conformity (DoC-16041400280-I)

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)  
2012/19/EU Waste Electrical and Electronic Equipment Directive (WEEE)  
2011/65/EU Restriction of Hazardous Substances Directive (RoHS)  
2013/35/EU Electromagnetic Fields Directive (EMF)

**Object of the Declaration:** MOTOTRBO DP\*\* Ex ATEX Portable Radios Series

DP4401 Ex, PBE302BEEEx, PBE302BEGEx, 136-174MHz, TX 1W, plain  
DP4801 Ex, PBE302HEEEx, PBE302HEGEx, 136-174MHz, TX 1W, full keypad, Display

National Licensed Frequencies Only

This DoC supersedes DOC-16041400280-H

**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 300 086 V2.1.2  
EN 300 113 V2.2.1  
EN 300 219 V2.1.1  
EN 303 413 V 1.1.1

EN 301 489-1 V2.2.3  
EN 301 489-5 V2.2.1  
EN 301 489-19 V2.1.1

EN62368-1:2014 + AC: 2015 + A11: 2017  
Compliant with the ICNIRP (1998) Occupational / Controlled Exposure Limits  
EN 50566:2017

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

Certificate issued by: DEKRA Testing, and Certification GmbH Dinnendahlstrasse 9, 44809 Bochum Germany  
EU Type Examination Certificate: BVS 12 ATEX E1117 X  
ATEX classification: II 2G Ex ib IIC T4 Gb; II 2D Ex ib IIIC T130deg.C Db; I M2 Ex ib I Mb, Tamb.: -20°C to +55°C

For the combination of the radios and accessories, refer to the safety manual 68012007083 for the combined Ex rating

KRAKOW, 18-APR-2023

Elektronicznie  
podpisany przez  
Jacek Drabik  
Data: 2023.04.19  
10:50:41 +02'00'

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

Dr. Jeevan Kanesalingam  
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



Refer to the link for the latest  
version of this document.  
[https://learning.motorolasolutions.com/Safety\\_Leaflets](https://learning.motorolasolutions.com/Safety_Leaflets)



68012007053-BF



## Rev. 1 Addendum to EU Declaration of Conformity (DoC-16041400280-I)

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

### PART NUMBER

#### ANTENNA

PMAD4126A	PMAD4127A	PMAD4128A
PMAD4129A	PMAD4130A	PMAD4131A
PMAD4132A		

#### AUDIO

PMLN6047A	PMLN6087A	PMLN6089A
PMLN6090A	PMLN6092A	PMLN6333A
PMLN7188B	PMLN7310ASP01	PMLN7531A
PMLN7535A	PMMN4067B	PMMN4094A
PMMN4110A		

#### BATTERY

NNTN8359A	NNTN8359C	
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#### BODYWORN

PMLN5610A	PMLN6086A	PMLN6096A
PMLN6097A	PMLN6098A	PMLN6099A

#### OTHERS

15012157001	PMLN6368A	
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#### SOFTWARE

D02.22.01.0114, Codeplug Version: 22.21.03

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



## UK Declaration of Conformity (DoC-16041400280-I)

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

The Waste Electrical and Electronic Equipment Regulations 2013

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

The Control of Electromagnetic Fields at Work Regulations 2016

**Object of the declaration:** MOTOTRBO DP\*\* Ex ATEX Portable Radios Series

DP4401 Ex, PBE302BEEEx, PBE302BEGEx, 136-174MHz, TX 1W, plain

DP4801 Ex, PBE302HEEEx, PBE302HEGEx, 136-174MHz, TX 1W, full keypad, Display

National Licensed Frequencies Only

This DoC supersedes DOC-16041400280-H

**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 300 086 V2.1.2

EN 300 113 V2.2.1

EN 300 219 V2.1.1

EN 303 413 V 1.1.1

EN 301 489-1 V2.2.3

EN 301 489-5 V2.2.1

EN 301 489-19 V2.1.1

EN62368-1:2014 + AC: 2015 + A11: 2017

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

EN 50566:2017

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

UKEx classification: II 2G Ex ib IIC T4 Gb; II 2D Ex ib IIIC T130deg.C Db; I M2 Ex ib I Mb, Tamb.: -20°C to +55°C

For the combination of the radios and accessories, refer to the safety manual 68012007083 for the combined Ex rating

KRAKOW, 18-APR-2023

Elektronicznie  
podpisany przez Jacek  
Drabik  
Data: 2023.04.19  
10:51:13 +0200'

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



## Rev. 1 Addendum to UK Declaration of Conformity (DoC-16041400280-I)

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.)

### PART NUMBER

#### ANTENNA

PMAD4126A	PMAD4127A	PMAD4128A
PMAD4129A	PMAD4130A	PMAD4131A
PMAD4132A		

#### AUDIO

PMLN6047A	PMLN6333A	PMLN7188B
PMMN4067B	PMMN4094A	PMMN4110A

#### BATTERY

NNTN8359A	NNTN8359C	
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#### BODYWORN

PMLN5610A	PMLN6086A	PMLN6096A
PMLN6097A	PMLN6098A	PMLN6099A

#### OTHERS

15012157001

#### SOFTWARE

D02.22.01.0114, Codeplug Version: 22.21.03

UK 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
MDH56JCC9LA3AN (PMUD3211B)	PBE302BEEEx	Belze ATEX VHF 136-174 MHz 1W NKP & GPS
MDH56JCN9PA3AN (PMUD3214B)	PBE302HEGEX	Belze ATEX VHF 136-174 MHz 1W FKP, GPS & GOB

with the occupational ICNIRP<sup>1</sup> 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,<sup>2</sup> 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 harmonized<sup>3</sup> standard EN50566,<sup>4</sup> 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,<sup>5</sup> show that these Motorola Solutions' portable device model(s), in all tested operating modes (on the body 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,<sup>6</sup> and both the health and the sensory ELVs defined in Directive 2013/35/EU.<sup>7</sup>

Sincerely,



Saw Sun Hock on behalf of Pei Loo Tey  
Penang EME Laboratory Manager  
DATE : 18-APR-2023

<sup>1</sup>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.

<sup>2</sup>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.

<sup>3</sup>Directive 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.

values related to human exposure to electromagnetic fields in the frequency range from 300 MHz to 6 GHz devices used next to the ear.

<sup>4</sup>EN50566:2017 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.

<sup>5</sup>ISO/IEC 17025 General requirements for the competence of testing and calibration laboratories.

<sup>6</sup>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.

<sup>7</sup>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 heating effect, e.g., powerful RA DMR emissions, but not the Motorola Solutions radio(s) referenced herein.



## EU Declaration of Conformity (DoC-16041400281-M)

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)  
2012/19/EU Waste Electrical and Electronic Equipment Directive (WEEE)  
2011/65/EU Restriction of Hazardous Substances Directive (RoHS)  
2013/35/EU Electromagnetic Fields Directive (EMF)  
2014/90/EU Marine Equipment Directive (MED)

**Object of the Declaration:** MOTOTRBO DP\*\* Ex ATEX Portable Radios Series  
DP4401 Ex, PBE502BEEEx, 403-470MHz, TX 1W, plain  
DP4801 Ex, PBE502HEGEx, 403-470MHz, TX 1W, full keypad, Display  
National Licensed Frequencies Only

This DoC supersedes DOC-16041400281-L

**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 300 086 V2.1.2  
EN 300 113 V2.2.1  
EN 300 219 V2.1.1  
EN 303 413 V1.1.1  
EN 300 720 V2.1.1

EN 301 489-1 V2.2.3  
EN 301 489-5 V2.1.1  
EN 60945:2002-10

EN62368-1:2014 + AC: 2015 + A11: 2017  
Compliant with the ICNIRP (1998) Occupational / Controlled Exposure Limits  
EN 50566:2017

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

**Others:**

TUV SUD DANMARK ApS, NB# 2443, has performed the type examination based on Module B of Marine Equipment Directive 2014/90/EU, Item MED/5.20 and issued the EC Type-examination certificate: DK-MED000154.

TUV SUD DANMARK ApS, NB# 2443, has undertaken the relevant assessment procedures based on Module D of Marine Equipment Directive 2014/90/EU, Item MED/5.20 and issued the Certificate: DK-MED005727-H1.

ATEX Notified Body Number 0158; DEKRA Testing, and Certification GmbH, Dinnendahlstr. 9, 44809 Bochum, Germany

EU Type Examination Certificate: BVS 12 ATEX E1117 X

ATEX classification: II 2G Ex ib IIC T4 Gb; II 2D Ex ib IIIC T130deg.C Db; I M2 Ex ib I Mb, Tamb.: -20°C to +55°C  
For the combination of the radios and accessories, refer to the safety manual 68012007083 for the combined Ex rating

KRAKOW, 12-APR-2023

Elektronicznie podpisany  
przez Jacek Drabik  
Data: 2023.04.17  
13:48:27 +02'00'

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



## Rev. 1 Addendum to EU Declaration of Conformity (DoC-16041400281-M)

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

### PART NUMBER

#### AUDIO

PMLN6047A	PMLN6087A	PMLN6089A
PMLN6090A	PMLN6092A	PMLN6333A
PMLN7188B	PMLN7310ASP01	PMLN7531A
PMLN7535A	PMMN4067B	PMMN4094A
PMMN4110A		

#### BATTERY

NNTN8359A	NNTN8359C	
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#### BODYWORN

PMLN5610A	PMLN6086A	PMLN6096A
PMLN6097A	PMLN6098A	PMLN6099A

#### OTHERS

15012157001	PMAE4081A	PMAE4082A
PMAE4083A	PMAE4084A	PMAE4085A
PMLN6368A	PMLN6803A	

#### SOFTWARE

R02.22.01.0114 Codeplug version: 22.21.03

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



## UK Declaration of Conformity (DoC-16041400281-M)

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  
The Waste Electrical and Electronic Equipment Regulations 2013  
Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment Regulations 2012  
The Control of Electromagnetic Fields at Work Regulations 2016  
The Merchant Shipping (Marine Equipment) Regulations 2016

**Object of the declaration:** MOTOTRBO DP\*\* Ex ATEX Portable Radios Series  
DP4401 Ex, PBE502BEEEx, 403-470MHz, TX 1W, plain  
DP4801 Ex, PBE502HEGEx, 403-470MHz, TX 1W, full keypad, Display  
National Licensed Frequencies Only

This DoC supersedes DOC-16041400281-L

**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 300 086 V2.1.2  
EN 300 113 V2.2.1  
EN 300 219 V2.1.1  
EN 303 413 V1.1.1  
EN 300 720 V2.1.1

EN 301 489-1 V2.2.3  
EN 301 489-5 V2.1.1  
EN 60945:2002-10

EN62368-1:2014 + AC: 2015 + A11: 2017  
Compliant with the ICNIRP (1998) Occupational / Controlled Exposure Limits  
EN 50566:2017

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

**Others:**

TUV SUD BABT UNLIMITED, AB# 0168, has performed the type examination based on Module B of Merchant Shipping (Marine Equipment) Regulations 2016, Item UK/5.20 and issued the Type Examination Certificate: BABT-UKMA000027 Issue 01.

TUV SUD BABT UNLIMITED, AB# 0168, has undertaken the relevant assessment procedures based on Module D of Merchant Shipping (Marine Equipment) Regulations 2016, Item UK/5.20 and issued the Certificate: BABT-UKMA005727-H1 Issue 01.

UKEX classification: II 2G Ex ib IIC T4 Gb; II 2D Ex ib IIIC T130deg.C Db; I M2 Ex ib I Mb, Tamb.: -20°C to +55°C  
For the combination of the radios and accessories, refer to the safety manual 68012007083 for the combined Ex rating

KRAKOW, 12-APR-2023

Elektronicznie  
podpisany przez Jacek  
Drabik  
Data: 2023.04.17  
13:47:37 +02'00'

Jacek Drabik  
Country Manager Motorola Solutions Poland,  
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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





## Rev. 1 Addendum to UK Declaration of Conformity (DoC-16041400281-M)

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.)

### PART NUMBER

#### AUDIO

PMLN6047A	PMLN6333A	PMLN7188B
PMMN4067B	PMMN4094A	PMMN4110A

#### BATTERY

NNTN8359A	NNTN8359C
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#### BODYWORN

PMLN5610A	PMLN6086A	PMLN6096A
PMLN6097A	PMLN6098A	PMLN6099A

#### OTHERS

15012157001	PMAE4081A	PMAE4082A
PMAE4083A	PMAE4084A	PMAE4085A
PMLN6368A	PMLN6803A	

#### SOFTWARE

R02.22.01.0114 Codeplug version: 22.21.03

UK 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
MDH56QCC9LA3AN (PMUE3755B)	PBE502BEEEx	Belze ATEX UHF 403-470, 1W, NKP ,GPS
MDH56QCN9PA3AN (PMUE3750B)	PBE502HEGEX	Belze ATEX UHF 403-470, 1W, FKP ,GPS & GOB

with the occupational ICNIRP<sup>1</sup> 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,<sup>2</sup> 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 harmonized<sup>3</sup> standard EN50566,<sup>4</sup> 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,<sup>5</sup> show that these Motorola Solutions' portable device model(s), in all tested operating modes (on the body 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,<sup>6</sup> and both the health and the sensory ELVs defined in Directive 2013/35/EU.<sup>7</sup>

Sincerely,



Saw Sun Hock on behalf of Pei Loo Tey  
Penang EME Laboratory Manager  
DATE : 16-APR-2023

<sup>1</sup>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.

<sup>2</sup>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.

<sup>3</sup>Directive 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.

values related to human exposure to electromagnetic fields in the frequency range from 300 MHz to 6 GHz devices used next to the ear.

<sup>4</sup>EN50566:2017 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.

<sup>5</sup>ISO/IEC 17025 General requirements for the competence of testing and calibration laboratories.

<sup>6</sup>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.

<sup>7</sup>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 heating effect, e.g., powerful RA DAR emissions, but not the Motorola Solutions radio(s) referenced herein.

## NOTES

## NOTES