

EU-Type Examination Certificate

Directive 2014/34/EU of the European Parliament and of the Council of 26 February 2014

EU-Type Examination Certificate Number: **BVS 12 ATEX E 117 X** Issue: **04**

Equipment: **Radio telephone type XPR **** Ex, XiR P**** Ex, DP**** Ex and DGP **** Ex**

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

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

This product and any acceptable variations thereto are 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 12.2167 EU. This issue of the EU-Type Examination Certificate replaces the previous issue of the EU-Type Examination Certificate BVS 12 ATEX E 117 X issue 03.


Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

EN IEC 60079-0:2018 **General requirements**
EN 60079-11:2012 **Intrinsic Safety "i"**

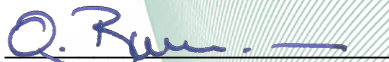
If the sign "X" is placed after the certificate number, it indicates that the product is subject to the "Specific Conditions of Use" listed under item 17 of this certificate.

This EU-Type Examination Certificate relates only to the technical design of the specified product in accordance with the Directive 2014/34/EU. 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 T130°C Db
I M2 Ex ib I Mb

DEKRA Testing and Certification GmbH
Bochum, 2026-01-16
BVS-HRH/HWa A 20250887 / 343891300


Managing Director

13 **Appendix**14 **EU-Type Examination Certificate****BVS 12 ATEX E 117 X issue 04**15 **Product description**15.1 **Subject and type**

Radio telephone type XPR **** Ex, type XiR P**** Ex, type DP**** Ex and type DGP **** Ex
The asterisk (*) in the type designation is replaced by numbers per the list below:

Name	Model number	Type description
<u>VHF version 136 to 174 MHz</u>		
XPR 7550 Ex	PMUD3214ABCNAA	North American Full Keypad Model (NAG FKP)
DP4801 Ex	PMUD3214ABCEAA	Europe, the Middle East, Africa, Australia and New Zealand Full Keypad Model (EMEA FKP)
DP4801 Ex	PMUD3214BBCEAA	Europe, the Middle East, Africa, Australia and New Zealand Full Keypad Model (EMEA FKP)
DP4801 Ex	PMUD3214BPCEAA	Europe, the Middle East, Africa, Australia and New Zealand Full Keypad Model (EMEA FKP)
DP4801 Ex	PMUD3214ACCEAA	Europe, the Middle East, Africa, Australia and New Zealand Full Keypad Model (EMEA FKP)
DP4801 EX	PMUD3214APCEAA	Europe, the Middle East, Africa, Australia and New Zealand Full Keypad Model (EMEA FKP)
XiR P8668 Ex	PMUD3214ABCAAA	Asia Pacific Full Keypad Model (APAC FKP)
XiR P8668 Ex	PMUD3214ABDAAA	Asia Pacific Full Keypad Model (APAC FKP)
XiR P8668 Ex	PMUD3214ABEAAA	Asia Pacific Full Keypad Model (APAC FKP)
XiR P8668 Ex	PMUD3214ABFAAA	Asia Pacific Full Keypad Model (APAC FKP)
XiR P8668 Ex	PMUD3214BBCAAA	Asia Pacific Full Keypad Model (APAC FKP)
XiR P8668 Ex	PMUD3214BBFAAA	Asia Pacific Full Keypad Model (APAC FKP)
XiR P8668 Ex	PMUD3214BBEAAA	Asia Pacific Full Keypad Model (APAC FKP)
XiR P8668 Ex	PMUD3214BBDAAA	Asia Pacific Full Keypad Model (APAC FKP)
XiR P8668 Ex	PMUD3214ACCAAA	Asia Pacific Full Keypad Model (APAC FKP)
XiR P8668 Ex	PMUD3214ACDAAA	Asia Pacific Full Keypad Model (APAC FKP)
XiR P8668 Ex	PMUD3214ACAAAA	Asia Pacific Full Keypad Model (APAC FKP)
DGP 8050 EX	PMUD3214ABALAA	Latin American Caribbean Region Full Keypad (LACR NKP)
DGP 8550 EX	PMUD3214ABCLAA	Latin American Caribbean Region Full Keypad (LACR FKP)
DGP 8550 EX	PMUD3214BBCLAA	Latin American Caribbean Region Full Keypad (LACR FKP)
DGP 8050 EX	PMUD3212BBALAA	Latin American Caribbean Region Non Keypad (LACR NKP)
XiR P8608 Ex	PMUD3212ABAAAA	Asia Pacific Non Keypad Model (APAC NKP)
XiR P8608 Ex	PMUD3212BBAAAA	Asia Pacific Non Keypad Model (APAC NKP)
XiR P8608 Ex	PMUD3212ACAAAA	Asia Pacific Non Keypad Model (APAC NKP)
DP4401 Ex	PMUD3211AAAEAA	Europe, the Middle East, Africa, Australia and New Zealand Non Keypad Model (EMEA NKP)
DP4401 Ex	PMUD3211BAAEAA	Europe, the Middle East, Africa, Australia and New Zealand Non Keypad Model (EMEA NKP)

Name	Model number	Type description
<u>UHF version 403 to 470 MHz</u>		
XPR 7550 Ex	PMUE3750ABCNAA	North American Full Keypad Model (NAG FKP)
DP4801 Ex	PMUE3750ABCEAA	Europe, the Middle East, Africa, Australia and New Zealand Full Keypad Model (EMEA FKP)
DP4801 Ex	PMUE3750BBCEAA	Europe, the Middle East, Africa, Australia and New Zealand Full Keypad Model (EMEA FKP)
DP4801 Ex	PMUE3750BPCEAA	Europe, the Middle East, Africa, Australia and New Zealand Full Keypad Model (EMEA FKP)
DP4801 Ex	PMUE3750ACCEAA	Europe, the Middle East, Africa, Australia and New Zealand Full Keypad Model (EMEA FKP)
DP4801 Ex	PMUE3750APCEAA	Europe, the Middle East, Africa, Australia and New Zealand Full Keypad Model (EMEA FKP)
XiR P8668 Ex	PMUE3750ABCAAA	Asia Pacific Full Keypad Model (APAC FKP)
XiR P8668 Ex	PMUE3750ABDAAA	Asia Pacific Full Keypad Model (APAC FKP)
XiR P8668 Ex	PMUE3750ABEAAA	Asia Pacific Full Keypad Model (APAC FKP)
XiR P8668 Ex	PMUE3750ABFAAA	Asia Pacific Full Keypad Model (APAC FKP)
XiR P8668 Ex	PMUE3750BBCAAA	Asia Pacific Full Keypad Model (APAC FKP)
XiR P8668 Ex	PMUE3750BBFAAA	Asia Pacific Full Keypad Model (APAC FKP)
XiR P8668 Ex	PMUE3750BBEAAA	Asia Pacific Full Keypad Model (APAC FKP)
XiR P8668 Ex	PMUE3750BBDAAA	Asia Pacific Full Keypad Model (APAC FKP)
XiR P8668 Ex	PMUE3750ACCAAA	Asia Pacific Full Keypad Model (APAC FKP)
XiR P8668 Ex	PMUE3750ACDAAA	Asia Pacific Full Keypad Model (APAC FKP)
XiR P8668 Ex	PMUE3750ACAAAA	Asia Pacific Full Keypad Model (APAC FKP)
DGP 8550EX	PMUE3750ABCLAA	Latin American Caribbean Region Full Keypad (LACR FKP)
DGP 8550EX	PMUE3750BBCLAA	Latin American Caribbean Region Full Keypad (LACR FKP)
DGP 8050EX	PMUE3754ABALAA	Latin American Caribbean Region Non Keypad (LACR NKP)
DGP 8050EX	PMUE3754BBALAA	Latin American Caribbean Region Non Keypad (LACR NKP)
XiR P8608 Ex	PMUE3754ABAAAA	Asia Pacific Non Keypad Model (APAC NKP)
XiR P8608 Ex	PMUE3754BBAAAA	Asia Pacific Non Keypad Model (APAC NKP)
XiR P8608 Ex	PMUE3754ACAAAA	Asia Pacific Non Keypad Model (APAC NKP)
DP4401 Ex	PMUE3755AAAEAA	Europe, the Middle East, Africa, Australia and New Zealand Non Keypad Model (EMEA NKP)
DP4401 Ex	PMUE3755BAAEAA	Europe, the Middle East, Africa, Australia and New Zealand Non Keypad Model (EMEA NKP)

15.2

Description

Reason for this issue

- Add Savox headset accessories (PMLN8765A & PMLN8766A)

Description of Product

The radio telephone types XPR **** Ex, XiR P**** Ex, DP**** Ex and DGP **** EX are portable radios that serve communication in the VHF (136 to 174 MHz) and UHF (403 to 470 MHz) band.

The radio telephones are only used with the battery type NNTN8359A or type NNTN8359B or type NNTN8359C or type NNTN8359CR and the Dust Cover with the part number 15012157001 or one of the approved accessories listed in this certificate.

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

For use with the 136 – 174 MHz versions

Part No	Description
PMAD4126A	GPS helical antenna (136 – 147 MHz) Ex
PMAD4127A	GPS helical antenna (147 – 160 MHz) Ex
PMAD4128A	GPS helical antenna (160 – 174 MHz) Ex
PMAD4129A	Stubby antenna 11cm (136 – 147 MHz) Ex
PMAD4130A	Stubby antenna 11cm (147 – 160 MHz) Ex
PMAD4131A	Stubby antenna 11cm (160 – 174 MHz) Ex
PMAD4132A	Wideband antenna (136 – 174 MHz) Ex

For use with the 403 to 470 versions

Part No	Description
PMAE4081A	DMR folded monopole (403 – 433 MHz) Ex
PMAE4082A	DMR folded monopole (430 – 470 MHz) Ex
PMAE4083A	DMR stubby antenna (403 – 433 MHz) Ex
PMAE4084A	DMR stubby antenna (430 – 470 MHz) Ex
PMAE4085A	DMR whip antenna (403 – 470 MHz) Ex

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

Part No	Description
PMLN6086A	ATEX Belt Clip 2.5-Inch Belt Width
PMLN6096A	Hard Leather Carry Case 2.5-Inch Swivel Belt Loop for Non-Keypad Radio
PMLN6097A	Hard Leather Carry Case 2.5-Inch Swivel Belt Loop for Full-Keypad Radio
PMLN6098A	Soft Leather Carry Case 2.5-Inch Swivel Belt Loop for Non-Keypad Radio
PMLN6099A	Soft Leather Carry Case 2.5-Inch Swivel Belt Loop for Full-Keypad Radio
PMLN5610A	2.5-Inch Replacement Swivel Belt Loop
NTN5243A	Adjustable Nylon Shoulder Strap

The following audio accessories, separately certified, can be connected to the radios:

Part No	Description	Certificate
PMMN4067B	ATEX CSA Remote Speaker Microphone	BVS 12 ATEX E 027 X
PMLN6047A	Audio Adapter with Molex jack	BVS 12 ATEX E 074 X

The Audio Adapter with Molex jack is only approved for use in gas hazardous (Group II) and dust hazardous (Group III) environments.

Furthermore, the following audio accessories, separately certified, with a secondary audio interface to allow the connection of headsets can be connected to the radios:

PMMN4094A	ANC RSM ATEX 20 Ohm Standard Cable	BVS 15 ATEX E 054X
PMNN4100A	ANC RSM ATEX 20 Ohm Long Cable	BVS 15 ATEX E 054X
PMMN4110A	OMNI RSM 20 Ohm Standard Cable	BVS 15 ATEX E 054X
PMMN4111A	OMNI RSM 20 Ohm Long Cable	BVS 15 ATEX E 054X
PMMN4163A	Remote Speaker Microphone	BVS 25 ATEX E 003 X

Part No	Description	Certificate
FL5263-34	PTT Adapter for use with Headset (Motorola Part Number PMLN6368A) Approved for use in Mining (Group I) and Gas hazardous (Group II) environments Ambient temperature range: $-20\text{ °C} \leq T_a \leq +50\text{ °C}$	Nemko 13ATEX1521X
FL4063-50-34	Small PTT adaptor (Motorola Part Number PMLN6803A) Approved for use in Mining (Group I) and Gas hazardous (Group II) environments Ambient temperature range: $-20\text{ °C} \leq T_a \leq +50\text{ °C}$	Nemko 13ATEX1521X
AK6760T	Key Switch (PTT unit) (Motorola Part Number PMLN7310ASP01) Approved for use in Gas hazardous (Group II) environments.	Presafe 15 ATEX 6928

The headsets listed below can be connected to the audio accessories.
Other accessories that have certified compatible interface parameters may also be connected.

MT7H79F-50	Standard Headset with microphone (Motorola Part Number PMLN6087A) Approved for use in Gas hazardous (Group II) environments. Ambient temperature range: $-20\text{ °C} \leq T_a \leq +50\text{ °C}$	Nemko 09ATEX1114X
MT7H79P3E-50	Standard Headset with microphone (Motorola Part Number PMLN6092A) Approved for use in Gas hazardous (Group II) environments. Ambient temperature range: $-20\text{ °C} \leq T_a \leq +50\text{ °C}$	Nemko 09ATEX1114X
MT72H540P3E-50	Standard Headset with microphone Motorola Part Number PMLN6333A) Approved for use in Gas hazardous (Group II) environments. Ambient temperature range: $-20\text{ °C} \leq T_a \leq +50\text{ °C}$	Nemko 09ATEX1119X
MT7H79B-50	Headset series, Tactical XP (Motorola Part Number PMLN7531A) Approved for use in Gas hazardous (Group II) environments. Ambient temperature range: $-20\text{ °C} \leq T_a \leq +50\text{ °C}$	Nemko 09ATEX1114X
MT1H7F2-07-51	Headset series, Tactical XP (Motorola Part Number PMLN6090A) Approved for use in Mining (Group I) and Gas hazardous (Group II) environments. Ambient temperature range: $-10\text{ °C} \leq T_a \leq +40\text{ °C}$	Nemko 10ATEX1029X
MT1H7P3E2-07-51	Headset series, Tactical XP (Motorola Part Number PMLN6089A) Approved for use in Mining (Group I) and Gas hazardous (Group II) environments. Ambient temperature range: $-10\text{ °C} \leq T_a \leq +40\text{ °C}$	Nemko 10ATEX1029X
MT1H7B2-07-51	Headset series, Tactical XP (Motorola Part Number PMLN7535A) Approved for use in Mining (Group I) and Gas hazardous (Group II) environments. Ambient temperature range: $-10\text{ °C} \leq T_a \leq +40\text{ °C}$	Nemko 10ATEX1029X

The accessories kit listed below shall be connected to only PMMN4163A:

PMLN8628A (Motorola Part Number PMLN8628A) EESF 24 ATEX 028X
 HS700Ex Standard Over-the-Head Headset
 Ambient temperature range: $-30^{\circ}\text{C} \leq T_a \leq +60^{\circ}\text{C}$

PMLN8629A (Motorola Part Number PMLN8629A) EESF 24 ATEX 028X
 HS700Ex Standard Helmet Attachment Headset
 Ambient temperature range: $-30^{\circ}\text{C} \leq T_a \leq +60^{\circ}\text{C}$

PMLN8631A (Motorola Part Number PMLN8631A) EESF 24 ATEX 027X
 HS750Ex Active hearing protectors with speakers and microphone
 Motorola Description: HS750Ex Over-the-Head Headset with Ambient Sound Control
 Ambient temperature range: $-30^{\circ}\text{C} \leq T_a \leq +40^{\circ}\text{C}$

PMLN8632A (Motorola Part Number PMLN8632A) EESF 24 ATEX 027X
 HS750Ex Active hearing protectors with speakers and microphone
 Motorola Description: HS750Ex Helmet Attachment Headset with Ambient Sound Control
 Ambient temperature range: $-30^{\circ}\text{C} \leq T_a \leq +40^{\circ}\text{C}$

PMLN8765A EESF 25 ATEX 003X
 (SAVOX ATEX HC-10 Headset helmet communication headset)
 Motorola Description: SAVOX ATEX HC-10 Bone Conduction Helmet Headset
 Ambient temperature range: $-30^{\circ}\text{C} \leq T_a \leq +60^{\circ}\text{C}$

PMLN8766A EESF 25 ATEX 003X
 (Savox ATEX HC-20 Helmet Com, helmet communication headset)
 Motorola Description: SAVOX ATEX HC-20 Bone Conduction Helmet Headset
 (Ambient temperature range: $-30^{\circ}\text{C} \leq T_a \leq +60^{\circ}\text{C}$)

The earpiece type PMLN8643A shall only be connected to the 3.5 mm audio jack of PMMN4163A.
 The accessories shall only be connected or disconnected to the remote speaker microphone outside the potentially hazardous environment.

The ambient temperature range of the earpiece PMLN8643A is $-30^{\circ}\text{C} \leq T_a \leq +60^{\circ}\text{C}$.

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

The permissible ambient temperature range for the radio, the battery type NNTN8359A or type NNTN8359B or type NNTN8359C or type NNTN8359CR, the ATEX CSA Remote Speaker Microphone type PMMN4067B, the ANC RSMs type PMMN4094A and PMMN4100A, the OMNI RSM type PMMN4111A and PMMN4110A and the Audio Adapter with Molex Jack type PMLN6047A is $-20^{\circ}\text{C} \leq T_a \leq +55^{\circ}\text{C}$.

The battery type NNTN8359A, NNTN8359B, NNTN8359C and NNTN8359CR shall only be charged outside the hazardous environment with chargers listed in the safety leaflet (document 68012007083).

15.3 Parameters

15.3.1 Electrical Data

15.3.1.1 Frequency range

VHF-version	136 – 174 MHz
UHF-version	403 – 470 MHz

15.3.1.2 Output power

2 W max. (ib)

15.3.1.3 Supply voltage

The radio is supplied by the battery type NNTN8359A or NNTN8359B or NNTN8359C or NNTB8359CR with the following supply voltage:

Nominal voltage:	7.6 V DC
Peak open voltage:	8.4 V DC

15.3.1.4 When the Audio Adapter PMLN6047A (BVS 12 ATEX E 074 X) is used with the radios and the battery types NNTN8359A or NNTN8359B or NNTN8359C or NNTN8359CR the following interface parameters must be considered for secondary audio devices connected to the Audio Adapter:

Max. output voltage:	$U_o = 8.4 \text{ V}$
Max. output current:	$I_o = 75 \text{ mA}$
Max. output power:	$P_o = \text{linear characteristic}$
Effective internal capacitance:	$C_i = \text{negligible}$
Effective internal inductance:	$L_i = \text{negligible}$

Connectable values for the Group IIC and IIIC in combination:

Max. external capacitance:	$C_o = 0.1 \mu\text{F}$
Max. external inductance:	$L_o = 2 \text{ mH}$

15.3.2 Ambient temperature range

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

15.3.3 Ingress protection for the radio telephone and the battery

IP64

16 Report Number

BVS PP 12.2167 EU, as of 2026-01-16

17 **Specific Conditions of Use**

- 17.1 The antennas shall only be connected / disconnected to the radios outside the hazardous environment.
- 17.2 The ATEX CSA Remote Speaker Microphone type PMMN4067B shall only be connected / disconnected outside the hazardous environment.
- 17.3 The Audio Adapter type PMLN6047A with Molex jack shall only be connected / disconnected outside the hazardous environment.
- 17.4 The ANC RSM type PMMN4094A and type PMMN4100A shall only be connected / disconnected outside the hazardous environment.
- 17.5 The OMNI RSM type PMMN4110A and type PMMN4111A shall only be connected / disconnected outside the hazardous environment.
- 17.6 The PPT Adapter type FL5263-34 PTT and type FL4063-50-34 shall only be connected / disconnected outside the hazardous.
- 17.7 The Key Switch type AK6760T shall only be connected / disconnected outside the hazardous environment.
- 17.8 For all separately certified accessories additional safety conditions listed in these certificates will apply.
- 17.9 When the Audio Adapter type PMLN6047A is connected, the radio shall only be used in gas (Group II) or dust (Group III) hazardous environments.
- 17.10 When the PTT Adapter type FL5263-34 or the Small PPT Adapter type FL4063-50-34 with one of the approved headsets is connected, the radio shall only be used in Mining (Group I) or Gas (Group II) hazardous environments.
- 17.11 When the Key Switch type AK6760T is connected, the radio shall only be used in a gas (Group II) hazardous environment.
- 17.12 The battery type NNTN8359A or type NNTN8359B or type NNTN8359C or type NNTN8359CR shall only be changed or charged outside the hazardous environment.
- 17.13 The Remote Speaker Microphone type PMMN4163A shall only be connected / disconnected outside the hazardous environment.

18 **Essential Health and Safety Requirements**

Met by compliance with the requirements mentioned in item 9.

19 **Remarks and additional information**

Drawings and documents are listed in the confidential report.