

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 25 ATEX E 003 X** Issue: **02**

Equipment: **NS750Ex Remote Speaker Microphone type PMMN4163A**

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 25.2018 EU. This issue of the EU-Type Examination Certificate replaces the previous issue of the EU-Type Examination Certificate BVS 25 ATEX E 003 X issue 01.

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

EN IEC 60079-0:2018 **General requirements**
IEC 60079-11:2023 **Intrinsic Safety "i"**

Where additional criteria beyond those given here have been used, they are listed at item 18 in the Schedule.

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:

NS750Ex Remote Speaker Microphone type PMMN4163A

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

PMLN8643A (3.5mm audio earpiece)

 **I M2 Ex ib I Mb**
II 2G Ex ib IIC T4 Gb
II 2D Ex ib IIIC T135°C Db

DEKRA Testing and Certification GmbH
Bochum, 2025-10-29



Managing Director

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15 **Product description**

15.1 **Subject and type**

Remote Speaker Microphone type PMMN4163A

15.2 **Description**

The Remote Speaker Microphone types PMMN4163A is audio accessories for connection to the Motorola ATEX certified radios of the series R7Ex, XPR****Ex, XiR P****Ex, DP****Ex and DGP****Ex.

Model number	Description
PMMN4163A	NS750Ex IMPRESS OMNI ATEX RSM with large front PTT, Nexus 3.5mm

The PMMN4163A is designed to be connected to the 2 radio platforms listed below:

- R7Ex approved under BVS 25 ATEX E 001 X
- XPR **** Ex, XiR P**** Ex, DP**** Ex and DGP ****Ex approved under BVS 12 ATEX E 117 X

The Remote Speaker Microphones (RSM) are connected to the radios through the Motorola proprietary GCAI connector.

The Remote Speaker Microphones can only be connected or disconnected outside the potentially hazardous environment.

The RSM features two audio interfaces for connection additional ATEX certified accessories:

- Nexus connector for connection to talk and listen accessories
- 3.5mm audio jack for connection of listen only accessories

to a)

The following separately certified accessories can be used by the Nexus connector with the accessories

Type (Motorola reference number)	ATEX Type Examination Certificate
MT7H79F-50 (PMLN6087A) Standard headset, with microphone and speaker (Ambient temperature range: $-20\text{ °C} \leq T_a \leq +50\text{ °C}$)	Nemko 09 ATEX1114X (For Group II application)
MT1H7P3E2-07-51 (PMLN6089A) Headset series, Tactical XP (Ambient temperature range: $-20\text{ °C} \leq T_a \leq +40\text{ °C}$)	Nemko 10 ATEX1029X (For Group I and II applications)
MT1H7F2-07-51 (PMLN6090A) Headset series, Tactical XP (Ambient temperature range: $-20\text{ °C} \leq T_a \leq +40\text{ °C}$)	Nemko 10 ATEX1029X (For Group I and II applications)
MT7H79P3E-50 (PMLN6092A) Standard headset, with microphone and speaker (Ambient temperature range: $-20\text{ °C} \leq T_a \leq +50\text{ °C}$)	Nemko 09 ATEX1114X (For Group II applications)

MT72H540P3E-50 (PMLN6333A)
Headset with microphone and speaker, twin cup
(Ambient temperature range: $-20\text{ °C} \leq T_a \leq +50\text{ °C}$)

Nemko 09 ATEX1119X
(For Group II applications)

MT7H79B-50 (PMLN7531A)
PELTOR Basic Headset Neckband
(Ambient temperature range: $-20\text{ °C} \leq T_a \leq +50\text{ °C}$)

Nemko 09 ATEX1114X
(For Group II applications)

MT1H7B2-07-51 (PMLN7535A)
PELTOR Tactical Headset Neckband
(Ambient temperature range: $-20\text{ °C} \leq T_a \leq +40\text{ °C}$)

Nemko 10 ATEX1029X
(For Group I and II applications)

PMLN8628A
HS700Ex Standard Over-the-Head Headset
(Ambient temperature range: $-30\text{ °C} \leq T_a \leq +60\text{ °C}$)

EESF 25 ATEX 028X

PMLN8629A
HS700Ex Standard Helmet Attachment Headset
(Ambient temperature range: $-30\text{ °C} \leq T_a \leq +60\text{ °C}$)

EESF 25 ATEX 028X

PMLN8631A
HS750Ex Active hearing protectors with speakers and microphone
Motorola Description: Over-the-Head Headset with Ambient Sound Control
(Ambient temperature range: $-30\text{ °C} \leq T_a \leq +40\text{ °C}$)

EESF 24 ATEX 027X (Issue 1)

PMLN8632A
HS750Ex Active hearing protectors with speakers and microphone
Motorola Description: Helmet Attachment Headset with Ambient Sound Control
(Ambient temperature range: $-30\text{ °C} \leq T_a \leq +40\text{ °C}$)

EESF 24 ATEX 027X (Issue 1)

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

EESF 25 ATEX 003X (Issue 2)

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

EESF 25 ATEX 003X (Issue 2)

To b)

The earpiece type PMLN8643A can be connected to the 3.5 mm audio jack.

The accessories can only be connected or disconnected to the remote speaker microphone outside the potentially hazardous environment.

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

Optionally one of the colour PTT labels PMLN8464A, PMLN8465A, PMLN8466A, PMLN8469A, PMLN8523A, or PMLN8468A can be attached to RSM PTT listed above. 0104068J78 is the replacement part for the belt clip subassembly.

The following earbud replacement can be used with PMLN8643A:
RLN6242, RLN6282, RLN4760, RLN4761, RLN4762, RLN4763, RLN4764 and RLN4765

Listing of all components used referring to older standards

No components used

Reasons for this issue

- The type item description was supplemented by NS750Ex
- The MT85**Ex radio was removed as approved radio for PMMN4163A
- Some of the earbud replacements were removed
- ATEX Certificate Revision update for SAVOX headset (PMLN8631A and PMLN8632A)
- Add SAVOX headset (PMLN8765A and PMLN8766A) as approved ATEX accessories for use with RSM PMMN4163A
- Update of several documents

15.3 Parameters

15.3.1 Electrical data

15.3.1.1 Input Parameter:

The PMMN4163A can be connected to the 2 radio platforms listed below:

- R7Ex (BVS 25 ATEX E 001 X)
- XPR **** Ex, XiR P**** Ex, DP**** Ex and DGP ****Ex (BVS 12 ATEX E 117 X)

15.3.1.2 Output Parameter:

Remote speaker microphone has the following output parameters for:

(a) Nexus Jack

Max. Output voltage	U_o	8.4	V _{DC}
Max. Output current	I_o	1.2	A
Max. Output power (linear characteristic)	P_o	< 0.650	W
Combined values for external capacitance with external inductance	C_o	1	μF
	L_o	46	μH

(b) 3.5 mm Audio Jack

Max. Output voltage	U_o	8.4	V _{DC}
Max. Output current	I_o	0.42	A
Max. Output power (linear characteristic)	P_o	< 0.650	W
Combined values for external capacitance with external inductance	C_o	0.5	μF
	L_o	380	μH

15.3.2 Ambient temperature range

$-25^{\circ}\text{C} \leq T_a \leq +60^{\circ}\text{C}$

15.3.3 Ingress protection level RSM PMMN4163A

IP 66/67 (acc. IEC 60079-0)

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17 Specific Conditions of Use

17.1 Connect and disconnect the Remote Speaker Microphones to the radio or the optional plug-in accessories only outside the potentially hazardous area.

17.2 When combining accessories, Remote Speaker Microphone and radio, the resulting ATEX classification for the system is always the lowest classification of the system elements. When using third party accessories, the conditions for safe use listed in the third-party accessory certificates must be observed.

- 17.3 The Remoted Speaker Microphone (PMMN4163A), 3.5mm audio earpiece (PMLN8643A) and the accessories connected to the Nexus and 3.5mm jack are only protected to low risk of mechanical danger when used in Group I potentially hazardous area.
- 17.4 The interconnection of the remote speaker microphone for Group I applications and radio must be tested and certified separately in some countries.
- 17.5 The 3.5 mm audio earpiece PMLN8643A has to be used as intended on the body/head.
- 17.6 Ensure that the remote speaker microphone connector is tightly fastened to the radio accessory connector before entering the potentially hazardous area.
- 17.7 Do not leave the remote speaker microphone unattended in the potentially hazardous area. Use the remote speaker as intended on the hand or on the body.
- 17.8 Remove or replace the earbud to the 3.5mm audio jack earpiece (PMLN8643A) only outside the potentially hazardous area.
- 17.9 Refer to safety instructions MN010393A01.

18 Essential Health and Safety Requirements

Met by compliance with the requirements mentioned in item 9.

For this device the used standard IEC 60079-11:2023 is safety-related equivalent to the harmonized standard EN 60079-11:2012. The only difference is the marking.

19 Remarks and additional information

Drawings and documents are listed in the confidential report.