Maritime &
Coastguard
Agency

UK Approved Body Authorised
by the MCA

Marine Equipment UK Assessment
Module B Type Examination Certificate

This is to certify that TUV SUD BABT UNLIMITED did undertake the relevant type approval procedures for the type of equipment identified below, which was found to be in compliance with the requirements of the Merchant Shipping (Marine Equipment) Regulations 2016, as amended, under Annex 1 of the listed Amendment of MSN 1874 for the types of equipment identified.

MSN 1874 Amendment	**Amendment 10**
Certificate Holder and Manufacturer	**Motorola Solutions Systems Polska Sp. z.o.o** **ul. Czerwone Maki 82** **Krakow** **30-392** **Poland**
Product(s)	**R7Ex**
Product Sector	**Radiocommunications Equipment**
Product Type	**UK/5.20 Fire-fighter's two-way radiotelephone apparatus**

and on the basis of the Technical Data and information detailed in the Annex to this certificate.

Valid from: 27 May 2025   (M J Hardy) *M Hardy*   Expiry Date: 25 March 2030

TÜV SÜD BABT is a UKAS accredited Certification Body No. 0172.
This certificate has been issued in accordance with the TÜV SÜD Testing, Certification, Validation and Verification Regulations and constitutes page 1 of the combined Certificate and Annex.
The Conditions for the validity of this certificate are listed in the Annex.
For further details related to this certification please contact BABT@tuvsud.com

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Annex to
Marine Equipment UK Conformity Assessment
Module B Type Examination Certificate

1   Equipment Description

Portable ATEX radio

1.1   Models [Note 1]

Sales Model	Regional S/Tanapa	Type Designator	Model and Description
MDH57QCN9XA3AN	PMUE5903ABCEAA	PZA502HEGEx	MOTOTRBO R7Ex UHF1 IIC FKP GOB WiFi/BT/GNSS
MDH57QCN9RA3AN	PMUE5903AACEAA	PZA502HEEx	MOTOTRBO R7Ex UHF1 IIC FKP WiFi/BT/GNSS
MDH57QCC9WA3AN	PMUE5904AAAEAA	PZA502BEx	MOTOTRBO R7Ex UHF1 IIC NKP GNSS
AZH57QCN9XA3AN	PMUE5903ABCAAA	-	MOTOTRBO R7Ex UHF1 IIC FKP GOB WiFi/BT/GNSS
AZH57QCN9RA3AN	PMUE5903AACAAA	-	MOTOTRBO R7Ex UHF1 IIC FKP (ENG) WiFi/BT/GNSS
AZH57QCN9RA3AN	PMUE5903AADAAA	-	MOTOTRBO R7Ex UHF1 IIC FKP (CHN) WiFi/BT/GNSS
AZH57QCC9WA3AN	PMUE5904AAAAAA	-	MOTOTRBO R7EX UHF1 IIC NKP GNSS
LAH57QCN9RA3AN	PMUE5903AACLAA	-	MOTOTRBO R7Ex UHF1 IIC FKP WiFi/BT/GNSS
LAH57QCC9WA3AN	PMUE5904AAALAA	-	MOTOTRBO R7Ex UHF1 IIC NKP GNSS

1.1.1   System Components

1.1.2   Batteries [Note 2]

Model	Description
PMNN4848A	Battery IMPRES IECEX/ATEX LiIon IP68 2150T
PMNN4848AR (for APAC region),	Battery IMPRES IECEX/ATEX LiIon IP68 2150T

1.1.3   Dust Cover

Model	Description
15012157001 [Note 3]	Dust Cover Assembly

1.1.4   Antennas (use one of the following)

Model	Description
AN000348A01	Stubby Antenna 90 mm (400-527 MHz)
AN000350A01	Stubby Antenna 60 mm (400-450 MHz)
AN000351A01	Stubby Antenna 60 mm (440-490 MHz)
PMAE4079A	Whip Antenna 150 mm (400-527 MHz)

1.1.5   Optional Components

Model	Description
Carry Accessories	
PMLN6086A	ATEX Belt Clip 2.5 Inch Belt Width
PMLN8636A	Hard Leather Carry Case 2.5 Inch Swivel Belt Loop for Non-Keypad Radio
PMLN8637A	Hard Leather Carry Case 2.5 Inch Swivel Belt Loop for Full-Keypad Radio
PMLN8641A	Hard Leather Carry Case 2.5 Inch Fixed Belt Loop for Non-Keypad Radio
PMLN8642A	Hard Leather Carry Case 2.5 Inch Fixed Belt Loop for Full-Keypad Radio
NTN5243A	Adjustable Nylon Shoulder Strap
RLN6486A	Adjustable Leather Shoulder Strap
RLN6487A	Adjustable Leather Shoulder Strap Extra Long
RLN6488A	Anti-Sway Strap
PMLN8722A	EX 2.5 Inch Swivel Belt Loop
Audio Accessories	
PMMN4163A	NS750Ex IMPRES OMNI ATEX Remote Speaker Microphone With Large Front PTT, Nexus, 3.5 mm
PMMN4164A	RM750Ex ATEX Remote Speaker Microphone
PMLN6047A	Audio Adapter with Molex Jack
PMLN8634A	PTT Adaptor
PMLN8631A	HS750Ex Over-the-head Headset with Ambient Sound Control
PMLN8632A	HS750Ex Helmet Attachment Headset with Ambient Sound Control
PMLN6090A	Headset Series, Tactical XP
PMLN6089A	Headset Series, Tactical XP
PMLN6092A	Standard Headset, with Microphone and Speaker
PMLN6333A	Headset with Microphone and Speaker, Twin cup
PMLN6087A	Standard Headset, with Microphone and Speaker
PMLN7310ASP01	PTT Unit
PMLN7531A	PELTOR Basic Headset Neckband
PMLN7535A	PELTOR Tactical Headset Neckband
Audio Accessories with secondary audio interface to allow the connection of headsets	
PMLN8628A	HS700Ex Standard Over-the-Head Headset
PMLN8629A	HS700Ex Over-the-head Headset with Ambient Sound Control
PMLN8643A	ATEX 3.5MM Earpiece with Translucent Tube, Loud Audio

2 Assessed Requirements

2.1 MSN 1874 Amendment 10 Annex 1

2.2 Compliance Requirements for UK/5.20 Row 2 of 2

Type approval requirements	Carriage and Performance Requirements
SOLAS 74 Reg II-2/2 SOLAS 74 Reg II-2/10	SOLAS 74/2014 Reg. II-2/10 IMO Res. A.694(17) IMO MSC.1Circ 1616 ITU-R M.489-2 (10/95) ITU-R M.1174-4 (10/2019)
Assessed Testing Standards	
IEC 60945:2002 incl. IEC 60945 Corr. 1:2008	EN 60079 series Note 3
ETSI EN 300 720 V2.1.1:2017-01	-

3 Technical Documentation

3.1 Declaration of Conformity

DoC-25010200167-A	Modified	2025-03-10

3.2 User Guide

MN010917A01-AA MOTOTRBO R7Ex Portable Radio User Guide, April 2025

MN010389A01 R7Ex Hazardous Location Safety Instruction and Approved Accessories Listing, February 2025

3.3 Test Reports

3.3.1 IEC 60945:2002 inc. Corr.1:2008

1161	Issued	2025-02-14
RP-70714-01 Revision A	Issued	2024-02-26
RP-71373-01 Revision A	Issued	2024-02-26
U241088E1	Issued	2025-02-24
0717N01-MARITIME-00001	Issued	2024-10-06
0717N01-MARITIME-00002	Issued	2024-10-18
0717N01-MARITIME-00003	Issued	2024-10-14

3.3.2 ETSI EN 300 720 V2.1.1:2017-01

0717N01-MARITIME-00004	Issued	2024-10-14

3.3.3 ATEX Directive 2014/34/EU

ATEX EU-Type Examination Certificate,BVS 25 ATEX E 001 X Issue 01	Issued	2025-04-07

Build Status

3.4.1 Hardware

R7EX MAINBOARD SCHEMATIC (SD003608A01)	Modified	2024-12-04
BoM R7Ex UHF IIC model	Modified	2025-02-25

3.4.2 Software Note 4

R7Ex Firmware   R02.25.01.3000

3.5 Notes

Note 1 The radiotelephones referenced in Section 1.1 of this annex are two-way portable radios for fire-fighter's communication in the UHF band. The radiotelephones may only be used in the frequency band 457.525 to 467.575 MHz with analogue FM modulation and 12.5/25 kHz channel spacing in accordance with ITU-R M1174-4

Note 2 The radio telephones can only be used with battery type PMNN4848A or type PMNN4848AR and with all accessories listed in this certificate. When the radios are used in a hazardous area, it is mandatory that the protective cover 15012157001 is fitted at the accessory connector.

Note 3 MSN 1874 Amendment 10 UK/5.20 requires compliance with the EN 60079 series of test standards. This requirement is covered by the ATEX Type Approval as referenced in section 3.3.3.

Note 4 This approval remains valid for equipment including subsequent minor software amendments which have been formally accepted in accordance with the TÜV SÜD Testing, Certification, Validation and Verification Regulations.

4 Conditions of Validity

This certificate ceases to be valid if the manufacturer makes any changes or modifications to the approved equipment, which have not been notified to, and agreed with TUV SUD BABT or a person appointed by TUV SUD BABT to perform that role.

During the period of validity of this certificate the applicable regulations (international conventions and the relevant resolutions and circulars of the IMO) and testing standards may change, therefore the product conformity may need to be re-assessed by the Approved Body.

The "Mark of Conformity" may only be affixed to the above type approved equipment and a manufacturer's Declaration of Conformity issued when the production-control phase module (D, E, or F) of Schedule 2 of the Merchant Shipping (Marine Equipment) Regulations 2016, as amended is fully complied with and controlled by a written inspection agreement with an approved body.

Signature: *M Hardy* (M J Hardy)	Date: 27/05/2025
On behalf of TUV SUD BABT UNLIMITED	