

Translation

(1) EC-Type Examination Certificate

(2) Equipment and protective systems intended for use in potentially explosive atmospheres - Directive 94/9/EC

(3) No. of EC-Type Examination Certificate: **BVS 15 ATEX E 115 X**

(4) Equipment: **Radiotelephone type DP**** Ex Ma**

(5) Manufacturer: **Motorola Solutions Germany GmbH**

(6) Address: **Am Borsigturm 130, 13507 Berlin, Germany**

(7) The design and construction of this equipment and any acceptable variation thereto are specified in the appendix to this type examination certificate.

(8) The certification body of DEKRA EXAM GmbH, notified body no. 0158 in accordance with Article 9 of the Directive 94/9/EC of the European Parliament and the Council of 23 March 1994, certifies that this equipment has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment and protective systems intended for use in potentially explosive atmospheres, given in Annex II to the Directive. The examination and test results are recorded in the Test and Assessment Report BVS PP 15,2206 EG.

(9) The Essential Health and Safety Requirements are assured by compliance with:

EN 60079-0:2012 + A11:2013 General requirements
EN 60079-11:2012 Intrinsic Safety "I"

(10) If the sign "X" is placed after the certificate number, it indicates that the equipment is subject to special conditions for safe use specified in the appendix to this certificate.

(11) This EC-Type Examination Certificate relates only to the design, examination and tests of the specified equipment in accordance to Directive 94/9/EC. Further requirements of the Directive apply to the manufacturing process and supply of this equipment. These are not covered by this certificate.

(12) The marking of the equipment shall include the following:

II 2G Ex ib IIC T4 Gb
II 2D Ex ib IIIC T130°C Db
I M1 Ex ia I Ma
IP64

DEKRA EXAM GmbH
Bochum, dated 2015-10-08

Signed: Simanski

Certification body

Signed: Dr. Wittler

Special services unit

(13) Appendix to

(14) **EC-Type Examination Certificate
BVS 15 ATEX E 115 X**

(15) 15.1 Subject and type

Radiotelephone type DP**** Ex Ma

Instead of the **** in the complete denomination numerals will be inserted which characterize the following modifications:

DP4801 Ex Ma Europa, Africa, Australia and New Zealand Full –Keypad Model (EMEA FKP)
DP4401 Ex Ma Europe, Africa, Australia and New Zealand Non–Keypad Model (EMEA NKP)

15.2 Description

The radio telephones type DP**** Ex Ma are portable 2-way radios that serve communication in the VHF (136 to 174 MHz) and UHF (403 to 470 MHz) band.

The radios are only used with the Battery NNTN8840A and the dust cover with the part number 15012157001 or one of the approved accessories.

The antennas listed below can be connected to the radios.

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 radios:

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
15012157001	Dust Cover Assembly

The following separately certified accessories can be used with the radio:

Part No	Description	Certificate
PMMN4094A	Noise Cancelling ATEX RSM (Ambient temperature range: $-20\text{ °C} \leq T_a \leq +55\text{ °C}$)	BVS 15 ATEX E 054X (For Group I, II and III)
FL5263-34 (PMLN6368A)	PTT Adapter for use with Headset (Ambient temperature range: $-20\text{ °C} \leq T_a \leq +50\text{ °C}$)	Nemko 13 ATEX1521X (Issue 2) (For Group I and II)
FL4063-50-34 (PMLN6803A)	PTT Adapter for use with Headset (Ambient temperature range: $-20\text{ °C} \leq T_a \leq +50\text{ °C}$)	Nemko 13 ATEX1521X (Issue 2) (For Group I and II)

The earpiece type PMLN 7188A can be connected to the 3.5 mm Audio Jack of ANC Remote speaker microphone PMMN4094A.

The accessories listed below can be connected to the ANC Remote Speaker microphone PMMN4094A or the PTT Adapter FL5263-34 (PMLN6368A) and FL4063-50-34 (PMLN6803A)

MT1H7P3E2-07-51 (PMLN6089A)	Headset Series, Tactical XP (Ambient temperature range: $-20\text{ °C} \leq T_a \leq +40\text{ °C}$)	Nemko 10 ATEX1029X Issue 2 (For Group I and II)
MT1H7F2-07-51 (PMLN6090A)	Headset Series, Tactical XP (Ambient temperature range: $-20\text{ °C} \leq T_a \leq +40\text{ °C}$)	Nemko 10 ATEX1029X Issue 2 (For Group I and II)

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

The ambient temperature range for the radios and the battery NNTN8840A is $-20\text{ °C} \leq T_a \leq +55\text{ °C}$.

Only chargers listed in the Motorola safety instruction MN001673A01 can be used with the battery NNTN8840A outside the potentially hazardous environment.

15.3 Parameters

15.3.1. Electrical data				
15.3.1.1	Frequency range	VHF UHF	136 - 174 403 - 470	MHz MHz
15.3.1.2	Radio output power		2 W maximal (ib, Gruppe II, III) 3.41 W maximal (ia, Gruppe I)	
15.3.1.3	Supply Voltage (NNTN8840A)			
	Nominal	U_n	7.6	V
	Peak open Voltage	U_o	8.4	V
15.3.2	Ambient temperature range		$-20\text{ °C} \leq T_a \leq +55\text{ °C}$	
15.3.3	Ingress protection		IP64	

(16) Test and Assessment Report

BVS PP 15.2206 EG as of 2015-10-08

(17) Special conditions for safe use

The radio, the battery and the accessories are only protected for the low risk of mechanical danger for Group I applications.

The battery will only be changed or charged outside the potentially hazardous area.

If the charge indicator lights at the charger consistently indicate a defective battery or is deviating from those listed in the manual of the chargers the battery is not allowed to be used in the hazardous environment anymore.

Use only chargers listed in the user manual MN001673A01.

We confirm the correctness of the translation from the German original.
In the case of arbitration only the German wording shall be valid and binding.

DEKRA EXAM GmbH
44809 Bochum, 2015-10-08
BVS-/Hil/Ha/Mu A 20140263



Certification body



Special services unit