Translation

(1) 1. Supplement to the EC-Type Examination Certificate

(2) Equipment and protective systems intended for use in potentially explosive atmospheres - Directive 94/9/EC
Supplement accordant with Annex III number 6

(3) No. of EC-Type Examination Certificate: **BVS 12 ATEX E 117 X**

(4) Equipment : **Radio telephone type XPR **** Ex, type XiR P**** Ex, type DP**** Ex and type DGP ****EX**

(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 supplement.

(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 12.2167 EG.

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

IEC 60079-0:2011 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 supplement to the 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 M2 Ex ib I Mb

DEKRA EXAM GmbH
Bochum, dated 24th June 2013

Signed: Simanski
Certification body

Signed: Dr. Wittler
Special services unit

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(13) Appendix to

(14) **1. Supplement to the EC-Type Examination Certificate BVS 12 ATEX E 117 X**

(15) 15.1 Subject and type

Radio telephone

type XPR **** Ex,
type XiR P**** Ex,
type DP**** Ex and
type DGP ****EX

The asterix (*) in the type designation is replaced by numbers per the list below

VHF versions 136 to 174 MHz

name	model number	type description
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)
XiR P8668 Ex	PMUD3214ABCAAA	Asia Pacific Full Keypad Model (APAC FKP)
XiR P8668 Ex	PMUD3214ABFAAA	Asia Pacific Full Keypad Model (APAC FKP)
XiR P8668 Ex	PMUD3214ABEAAA	Asia Pacific Full Keypad Model (APAC FKP)
XiR P8668 Ex	PMUD3214ABDAAA	Asia Pacific Full Keypad Model (APAC FKP)
DGP 8550EX	PMUD3214ABCLAA	Latin American Caribbean Region Full Keypad (LACR FKP)
DGP 8050EX	PMUD3212ABALAA	Latin American Caribbean Region Non Keypad (LACR NKP)
XiR P8608 Ex	PMUD3212ABAAAA	Asia Pacific Non Keypad Model (APAC NKP)
DP4401 Ex	PMUD3211AAAEAA	Europe, the Middle East, Africa, Australia and New Zealand Non Keypad Model (EMEA NKP)

UHF versions 403 to 470MHz

name	model number	type description
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)
XiR P8668 Ex	PMUE3750ABCAAA	Asia Pacific Full Keypad Model (APAC FKP)
XiR P8668 Ex	PMUE3750ABFAAA	Asia Pacific Full Keypad Model (APAC FKP)
XiR P8668 Ex	PMUE3750ABEAAA	Asia Pacific Full Keypad Model (APAC FKP)
XiR P8668 Ex	PMUE3750ABDAAA	Asia Pacific Full Keypad Model (APAC FKP)
DGP 8550EX	PMUE3750ABCLAA	Latin American Caribbean Region Full Keypad (LACR FKP)
DGP 8050EX	PMUE3754ABALAA	Latin American Caribbean Region Non Keypad (LACR NKP)
XiR P8608 Ex	PMUE3754ABAAAA	Asia Pacific Non Keypad Model (APAC NKP)
DP4401 Ex	PMUE3755AAAEAA	Europe, the Middle East, Africa, Australia and New Zealand Non Keypad Model (EMEA NKP)

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15.2 Description

The radio telephones types XPR **** Ex, XiR P**** Ex, DP**** Ex and DGP ****EX 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 accu type NNTN8359A and the Dust Cover with the part number 15012157001 or the audio adapter type PMLN6047A or one of the approved accessories listed in this certificate.

The antennas listed below can be connected to the radios

For use with the 136 - 174MHz 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 devises 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

Subject of this supplement is to list additional audio accessories that are allowed to be used with the radios and extend the list of chargers.

Accessories approved in the first issue of the certificate

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 type PMLN6047A is only approved for use in Gas (Group II) and Dust (Group III) hazardous environments.

The following additional Audio Accessories that are connected via the PTT adapter Type FL5263-34 (Nemko 13ATEX 1521 X) are allowed to be used with the radio in the potentially hazardous environment

MT7H79F-50 Standard Headset with microphone and speaker Nemko 09 ATEX E 1114 X
(Motorola Part Number PMLN6087A)

MT7H79P3E-50 Standard Headset with microphone and speaker Nemko 09 ATEX E 1114 X
(Motorola Part Number PMLN6092A)

MT72H540P3E-50 Standard Headset with microphone and speaker Nemko 09 ATEX E 1119 X
(Motorola Part Number PMLN6333A)

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MT1H7F2-07-51 Headset series, Tactical XP (Motorola Part Number PMLN6090A) Nemko 10 ATEX E 1029 X

MT1H7P3E2-07-51Headset series, Tactical XP (Motorola Part Number PMLN6089A) Nemko 10 ATEX E 1029 X

The PTT adapter Type FL5263-34 (Motorola part number PMLN6368A) and the additional Audio Accessories listed above are only approved for use in Gas (Group II) hazardous environments

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

The ambient temperature range for the radio, the battery type NNTN8359A, the ATEX CSA Remote Speaker Microphone type PMMN4067B and the Audio Adapter with Molex Jack type PMLN6047A is -20 °C ≤ Ta ≤ +55 °C.

The ambient temperature range of the additional audio accessories connected via PTT adapter Type FL5263-34 is -20 °C ≤ Ta ≤ +50 °C but limited to -20 °C ≤ Ta ≤ +40 °C for MT1H7F2-07-51 and MT1H7P3E2-07-51.

The following chargers can be used with the accu type NNTN8354A outside the potentially hazardous environment:

Part No	Description
WPLN4255B	IMPRES Single-Unit Charger with Switch Mode Power Supply EU Cord, Level V
WPLN4254B	IMPRES Single-Unit Charger with Switch Mode Power Supply UK Cord, Level V
WPLN4245B	IMPRES Single-Unit Charger with Switch Mode Power Supply PRC Cord, Level V
WPLN4249B	IMPRES Single-Unit Charger with Switch Mode Power Supply KOREA Cord, Level V
WPLN4256B	IMPRES Single-Unit Charger with Switch Mode Power Supply AUST/NZ Cord, Level V
WPLN4247B	IMPRES Single-Unit Charger with Switch Mode Power Supply JAPAN Cord, Level V
WPLN4253B	IMPRES Single-Unit Charger with Switch Mode Power Supply NA Cord, Level V
WPLN4213A	IMPRES Multi-Unit Charger - EURO Plug
WPLN4214A	IMPRES Multi-Unit Charger - UK Plug
WPLN4215A	IMPRES Multi-Unit Charger - AUSTRALIA/NZ Plug
WPLN4217A	IMPRES Multi-Unit Charger - KOREAN Plug
WPLN4212A	IMPRES Multi-Unit Charger - US/NA Plug
WPLN4220A	IMPRES Multi-Unit Charger with Display - EURO Plug
WPLN4221A	IMPRES Multi-Unit Charger with Display - UK Plug
WPLN4222A	IMPRES Multi-Unit Charger with Display - AUSTRALIA/NZ Plug
WPLN4224A	IMPRES Multi-Unit Charger with Display - KOREAN Plug
WPLN4219A	IMPRES Multi-Unit Charger with Display - US/NA Plug
NNTN8273A	MOTOTRBO Core SUC with SMPS – Euro
NNTN8274A	MOTOTRBO Core SUC with SMPS –UK/ Hong Kong
NNTN8275A	MOTOTRBO Core SUC with SMPS –NA/ LA
NNTN8276A	MOTOTRBO Core SUC with SMPS –Japan
NNTN8277A	MOTOTRBO Core SUC with SMPS –Korea
NNTN8278A	MOTOTRBO Core SUC with SMPS –Australia/ NZ
NNTN8280A	MOTOTRBO Core SUC with SMPS –Brazil
WPLN4232A	MOTOTRBO IMPRES SUC 110 Vac 50/60MHz – US
WPLN4246A	MOTOTRBO IMPRES SUC with SMPS –Japan
WPLN4247A	MOTOTRBO IMPRES SUC 110 Vac 50/60MHz – Japan
WPLN4248A	MOTOTRBO Core SUC with SMPS –Korea
WPLN4249A	MOTOTRBO IMPRES SUC with SMPS –Korea
WPLN4252A	MOTOTRBO Core SUC with SMPS –Argentina
WPLN4253A	MOTOTRBO IMPRES SUC with SMPS –NA/LA
WPLN4254A	MOTOTRBO IMPRES SUC with SMPS –UK
WPLN4255A	MOTOTRBO IMPRES SUC with SMPS –Euro
WPLN4256A	MOTOTRBO IMPRES SUC with SMPS –Australia/NZ
WPLN4257A	MOTOTRBO IMPRES SUC with SMPS –Argentina
WPLN4259A	MOTOTRBO Core SUC with SMPS –NA/LA
WPLN4260A	MOTOTRBO Core SUC with SMPS – UK
WPLN4262A	MOTOTRBO Core SUC with SMPS –Australia/NZ
WPLN4272A	MOTOTRBO Core SUC with SMPS – Euro
WPLN4281A	MOTOTRBO IMPRES SUC – Brazil
WPLN4246B	MOTOTRBO IMPRES SUC with SMPS –Japan

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WPLN4246B	MOTOTRBO IMPRES SUC with SMPS –Japan
WPLN4248B	MOTOTRBO Core SUC with SMPS –Korea
WPLN4252B	MOTOTRBO Core SUC with SMPS –Argentina
WPLN4257B	MOTOTRBO IMPRES SUC with SMPS –Argentina
WPLN4259B	MOTOTRBO Core SUC with SMPS – NA/LA
WPLN4260B	MOTOTRBO Core SUC with SMPS – UK
WPLN4262B	MOTOTRBO Core SUC with SMPS –Australia/NZ
WPLN4272B	MOTOTRBO Core SUC with SMPS – Euro
WPLN4281B	MOTOTRBO IMPRES SUC – Brazil
PMLN5256A	MOTOTRBO IMPRES Multi Unit Charger –Japan
PMLN5256B	MOTOTRBO IMPRES Multi Unit Charger –Japan
WPLN4212B	MOTOTRBO IMPRES Multi Unit Charger –US/NA
WPLN4213B	MOTOTRBO IMPRES Multi Unit Charger –Euro
WPLN4214B	MOTOTRBO IMPRES Multi Unit Charger –UK
WPLN4215B	MOTOTRBO IMPRES Multi Unit Charger –Australia/ NZ
WPLN4216A	MOTOTRBO IMPRES Multi Unit Charger –Argentina
WPLN4216B	MOTOTRBO IMPRES Multi Unit Charger –Argentina
WPLN4217B	MOTOTRBO IMPRES Multi Unit Charger –Korea
WPLN4219B	MOTOTRBO IMPRES Multi Unit Charger w/display – US/NA
WPLN4220B	MOTOTRBO IMPRES Multi Unit Charger w/display – Euro
WPLN4221B	MOTOTRBO IMPRES Multi Unit Charger w/display – UK
WPLN4222B	MOTOTRBO IMPRES Multi Unit Charger w/display – Australia/NZ
WPLN4223A	MOTOTRBO IMPRES Multi Unit Charger w/display – Argentina
WPLN4223B	MOTOTRBO IMPRES Multi Unit Charger w/display – Argentina
WPLN4224B	MOTOTRBO IMPRES Multi Unit Charger w/display – Korean
WPLN4237A	MOTOTRBO IMPRES Multi Unit Charger –EMEA Hybrid
WPLN4327B	MOTOTRBO IMPRES Multi Unit Charger –EMEA Hybrid
WPLN4238A	MOTOTRBO IMPRES Multi Unit Charger –EMEA Hybrid
WPLN4238A	MOTOTRBO IMPRES Multi Unit Charger w/display – EMEA Hybrid
WPLN4239A	MOTOTRBO IMPRES Multi Unit Charger w/1-up Display – US
WPLN4239B	MOTOTRBO IMPRES Multi Unit Charger w/1-up Display – US
WPLN4277A	MOTOTRBO IMPRES Multi Unit Charger –Brazil
WPLN4277B	MOTOTRBO IMPRES Multi Unit Charger –Brazil
WPLN4278A	MOTOTRBO IMPRES Multi Unit Charger –Brazil
WPLN4278B	MOTOTRBO IMPRES Multi Unit Charger –Brazil
NNTN7616C	MOTOTRBO VC – NA/Euro
NNTN7616C	MOTOTRBO VC – China

The chargers kits listed above are contain charger bases and power supply bases as listed in document 68012007083 rev B Hazardous Location Safety Instruction and Approved Accessories

15.3 Parameters

15.3.1 Electrical data

15.3.1.1	Frequency bands		
	VHF-versions	136 – 174	MHz
	UHF-versions	403 - 470	MHz
15.3.1.2	Transmitter output power	2	W max (ib)
15.3.1.3	Supply voltage		

The radio telephone is supplied by the battery type NNTN8359A with the following supply voltage

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

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15.3.1.4 When the Audio Adapter type PMLN6047A (BVS 12 ATEX E 074 X) is used with the battery type NNTN8359A the following interface parameters have to be considered for secondary audio devices connected to the audio adapter:

Max. output voltage	Uo= 8.4V	DC
Max. output current	Io= 75	mA
Max. output power	Po= 314	mW (linear characteristic)
Effective internal capacitance	Ci =	negligible
Effective internal inductance	Li =	negligible
Connectable values for the group IIC and IIIC in combination		
Max. external capacitance	Co= 0.1	µF
Max. external inductance	Lo= 2	mH

(16) Test and assessment report

BVS PP 12.2167 EG as of 24th June 2013

(17) Special conditions for safe use

17.1 The antenna can connect or change only outside the potentially hazardous area.

17.2 The ATEX CSA Remote Speaker Microphone type PMMN4067B can be connected or change only outside the potentially hazardous area.

17.3 The Audio Adapter with Molex jack type PMLN6047A can be connected or change only outside the potentially hazardous area.

17.4 It is only allowed to connect or disconnect the ATEX PTT adapter outside the hazardous environment and the headsets and can only be used with the listed Audio accessories#

17.5 For separately certified accessories the conditions for safe use in their certificates apply in addition

17.6 When the Audio Adapter PMLN6047A is connected, the radio can only be used in gas (Group II) and dust (Group III) hazardous environments.

17.7 When the PTT adapter FL5263-34 and one of the headsets are connected the system is is only approved for Gas (group II) Gas hazardous locations.

17.8 The accu type NNTN8359A will only be changed or charged outside the potentially hazardous area

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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, 24th June 2013
BVS-Ha/Ma A20130148

Certification body

Special services unit

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