



Translation

(1) EC-Type Examination Certificate

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

(3) **BVS 07 ATEX E 095 X**

(4) **Equipment:** Radiotelephone WARIS type GP***, PTX*** and ATS***

(5) **Manufacturer:** Motorola GmbH

(6) **Address:** 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 07.2180 EG.


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

EN 60079-0:2006 General requirements
EN 60079-11:2007 Intrinsic safety "i"
EN 61241-0:2006 General requirements
EN 61241-1:2004 Protection by enclosures

(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
 **II 2 D Ex tD A21 IP6x ib D21 T110°C**
I M2 Ex ib I

DEKRA EXAM GmbH

Bochum, dated 20. December 2007

Signed: Dr. Jockers

Signed: Dr. Arnold

Certification body

Special services unit

(13) Appendix to

(14) **EC-Type Examination Certificate**

BVS 07 ATEX E 095 X

(15) 15.1 Subject and type

Radiotelephone WARIS type GP***, PTX*** and ATS***

The stars of the marking can be replaced by the following letters:

name	type description	model number
VHF		
Standard Models		
GP580 Ex	PW331H; S/Z; 12.5 kHz; 136 – 174 MHz	MDH25KCH4GC6BEA
GP680 Ex	PW331H; MPT; 12.5 kHz; 136 – 174 MHz	MDH25KCH4CK6BEA
GP380 Ex	PW331H; 5T; 12.5 kHz; 136 – 174 MHz	MDH25KCH4AN6BEA
GP340 Ex	PW331C; 5T POP; 12.5 kHz; 136 – 174 MHz	MDH25KCC4AN3BEA
GP580 Ex	PW311H; S/Z; 25 kHz; 136 – 174 MHz	MDH25KCH6GC6BEA
GP680 Ex	PW311H; MPT; 25 kHz; 136 – 174 MHz	MDH25KCH6CK6BEA
GP380 Ex	PW311H; 5T; 25 kHz; 136 – 174 MHz	MDH25KCH6AN6BEA
GP340 Ex	PW311C; 5T POP; 25 kHz; 136 – 174 MHz	MDH25KCC6AN3BEA
VHF		
APAC Models		
ATS2500 Ex	S/Z; 12.5 kHz; 136 – 174 MHz	AZH25KCH4GC6
PTX760 Ex	MPT; 12.5 kHz; 136 – 174 MHz	AZH25KCH4CK6
GP339 Ex	5T; 12.5 kHz; 136 – 174 MHz	AZH25KCH4AN6
GP329 Ex	5T POP; 12.5 kHz; 136 – 174 MHz	AZH25KCC4AN3
ATS2500 Ex	S/Z; 25 kHz; 136 – 174 MHz	AZH25KCH6GC6
PTX760 Ex	MPT; 25 kHz; 136 – 174 MHz	AZH25KCH6CK6
GP339 Ex	5T; 25 kHz; 136 – 174 MHz	AZH25KCH6AN6
GP329 Ex	5TPOP; 25 kHz; 136 – 174 MHz	AZH25KCC6AN3
VHF		
Models with option board 0166503N09		
GP680 Ex	PW331H; MPT; 12.5 kHz; 136 – 174 MHz	MDH25KCH4CK6BEASP1
GP380 Ex	PW331H; 5T; 12.5 kHz; 136 – 174 MHz	MDH25KCH4AN6BEASP1
GP340 Ex	PW331C; 5T POP; 12.5 kHz; 136 – 174 MHz	MDH25KCC4AN3BEASP1
GP680 Ex	PW311H; MPT; 25 kHz; 136 – 174 MHz	MDH25KCH6CK6BEASP1
GP380 Ex	PW311H; 5T; 25 kHz; 136 – 174 MHz	MDH25KCH6AN6BEASP1
GP340 Ex	PW311C; 5T POP; 25 kHz; 136 – 174 MHz	MDH25KCC6AN3BEASP1
VHF		
Models with option board 0166503N10		
GP380 Ex	PW311H; 5T; 25 kHz; 136 – 174 MHz	MDH25KCH6AN6BEASP3
VHF		
Models with option board 0166501N15		
GP380 Ex	PW311H; 5T; 25 kHz; 136 – 174 MHz	MDH25KCH6AN6BEASP2
UHF		
Standard Models		
GP580 Ex	PW531H; S/Z; 12.5 kHz; 403 – 470 MHz	MDH25RCH4GC6BEA
GP680 Ex	PW531H; MPT; 12.5 kHz; 403 – 470 MHz	MDH25RCH4CK6BEA
GP380 Ex	PW531H; 5T; 12.5 kHz; 403 – 470 MHz	MDH25RCH4AN6BEA

GP340 Ex	PW531C; 5T POP; 12.5 kHz; 403 – 470 MHz	MDH25RCC4AN3BEA
GP580 Ex	PW531H; S/Z; 25 kHz; 403 – 470 MHz	MDH25RCH6GC6BEA
GP680 Ex	PW531H; MPT; 25 kHz; 403 – 470 MHz	MDH25RCH6CK6BEA
GP380 Ex	PW531H; 5T; 25 kHz; 403 – 470 MHz	MDH25RCH6AN6BEA
GP340 Ex	PW531C; 5T POP; 25 kHz; 403 – 470 MHz	MDH25RCC6AN3BEA

UHF

ATS2500 Ex	S/Z; 12.5 kHz; 403 – 470 MHz	AZH25RCH4GC6
PTX760 Ex	MPT; 12.5 kHz; 403 – 470 MHz	AZH25RCH4CK6
GP339 Ex	NA 5T; 12.5 kHz, 403 – 470 MHz	AZH25RCH4AN6
GP329 Ex	NA 5T POP, 12.5 kHz, 403 – 470 MHz	AZH25RCC4AN3
ATS2500 Ex	S/Z, 25 kHz, 403 – 470 MHz	AZH25RCH6GC6
PTX760 Ex	MPT, 25 kHz, 403 – 470 MHz	AZH25RCH6CK6
GP339 Ex	NA 5T, 25 kHz, 403 – 470 MHz	AZH25RCH6AN6
GP329 Ex	NA 5T POP, 25 kHz, 403 – 470 MHz	AZH25RCC6AN3

APAC Models
UHF

GP680 Ex	PW531H; MPT; 12.5 kHz; 403 – 470 MHz	MDH25RCH4CK6BEASP1
GP380 Ex	PW531H; 5T; 12.5 kHz; 403 – 470 MHz	MDH25RCH4AN6BEASP1
GP340 Ex	PW531C; 5T POP; 12.5 kHz; 403 – 470 MHz	MDH25RCC4AN3BEASP1
GP680 Ex	PW531H; MPT; 25 kHz; 403 – 470 MHz	MDH25RCH6CK6BEASP1
GP380 Ex	PW531H; 5T; 25 kHz; 403 – 470 MHz	MDH25RCH6AN6BEASP1
GP340 Ex	PW531C; 5T POP; 25 kHz; 403 – 470 MHz	MDH25RCC6AN3BEASP1

Models with optionboard 0166503N09

15.2 Description

The radiotelephone type GP***, PTX*** and ATS*** is a handheld radiotelephone and it serves for communication in the UHF and the VHF band.

The following antennas can be connected to the radio:

Antennas approved for group II 2G and group I M2 applications

PMAD4012A VHF, 9cm, 136-155MHz
 PMAD4013A VHF, 9cm, 155-174MHz
 PMAD4014A VHF, 14cm, 136-155MHz
 PMAD4015A VHF, 14cm, 155-174MHz
 PMAD4023A VHF, 14cm, 150-161MHz
 PMAD4025A VHF, 9cm, 150-161MHz
 NAE6483AR UHF, 403-520MHz
 NAE6522AR UHF, 9cm Helical, 430-470MHz
 PMAE4003A UHF, 9cm Helical, 430-470MHz
 PMAE4002A UHF, 9cm, 403-433MHz

Antennas approved for Group II 2G 2D and group I M2 applications:

PMAE4016A Antenna WHIP, 403-520MHz
 PMAD4042A VHF, 14cm, 136-155 MHz
 PMAD4049A VHF, 15cm, 146-174 MHz

For the supply of the radio the battery type NNTB5510CR is used.

The battery will be charged only outside the potentially explosive atmospheres.

The radios may be used with one of the following leather carry cases/carrying devices:

GMLN1110A/B
 GMLN1111A/B
 GMLN1112A/B
 GMLN1113A/B
 NTN5243A

MDHLN6602A
MDRLN4815A
RLN6258A
PMLN5134A

The following accessories GMMN1111A Remote Speaker Microphone (BVS 05 ATEX E 082) can be connected to the radios.

The listed accessory will be connected only outside the potentially explosive atmospheres.

The permitted ambient temperature range for the radio, the battery and the remote speaker microphone is $-20\text{ °C} < T_a < +50\text{ °C}$.

15.3 Parameters

15.3.1 Electrical data

frequency range	403 – 470 MHz 136 – 174 MHz
output power under normal condition	1 W
under fault condition (ib)	< 2 W

15.3.2 Ambient temperature range $-20\text{ °C} < T_a < +50\text{ °C}$

(16) Test and assessment report
BVS PP 07.2180 EG as of 20.12.2007

(17) Special conditions for safe use
It is only allowed to connect accessories that meet the requirements of the interface documents 6866546D07_02_06 Rev A and 6866546D07_02_07 Rev A.


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.

44809 Bochum, 20.12.2007
BVS-Ha/Mi A 20070427

DEKRA EXAM GmbH



Certification body



Special services unit