



Translation

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

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

(3) **BVS 05 ATEX E 082**

(4) **Equipment: Radio type GP\*\*\***

(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 schedule to this type examination certificate.

(8) The certification body of EXAM BBG Prüf- und Zertifizier 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 05.2054 EG.


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

EN 50014:1997+A1-A2 General requirements  
EN 50020:2002 Intrinsic safety "I"  
EN 50281-1-1:1998+A1 Dust explosion protection

(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 schedule 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 EEx ib IIC T4**  
**II 3D IP5x T 60 °C**

**EXAM BBG Prüf- und Zertifizier GmbH**

Bochum, dated 24. June 2005

Signed: Dr. Eickhoff

Signed: Schumann

\_\_\_\_\_  
Certification body

\_\_\_\_\_  
Special services unit

(13) Appendix to

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

**BVS 05 ATEX E 082**

(15) 15.1 Subject and type

Radio type GP\*\*\*

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

name	type description	model number
GP340 UHF1 5T	ATEX Type PW531C (12,5 kHz)	MDH25RCC4AN3AEA
GP340 UHF1 5T	ATEX Type PW511C (25,0 kHz)	MDH25RCC6AN3AEA
GP340 UHF1 5T	ATEX Type PW531C w/Option Board (12,5 kHz)	MDH25RCC4AN3AEASP1
GP340 UHF1 5T	ATEX Type PW511C w/Option Board (25,0 kHz)	MDH25RCC6AN3AEASP1
GP380 UHF1 5T	ATEX Type PW531H (12,5 kHz)	MDH25RCH4AN6AEA
GP380 UHF1 5T	ATEX Type PW511H (25,0 kHz)	MDH25RCH6AN6AEA
GP380 UHF1 5T	ATEX Type PW531H w/Option Board (12,5 kHz)	MDH25RCH4AN6AEASP1
GP380 UHF1 5T	ATEX Type PW511H w/Option Board (25,0 kHz)	MDH25RCH6AN6AEASP1
GP580 UHF1 S/Zone	ATEX Type PW531H (12,5 kHz)	MDH25RCH4GC6AEA
GP580 UHF1 S/Zone	ATEX Type PW511H (25,0 kHz)	MDH25RCH6GC6AEA
GP680 UHF1 MPT	ATEX Type PW531H (12,5 kHz)	MDH25RCH4CK6AEA
GP680 UHF1 MPT	ATEX Type PW511H (25,0 kHz)	MDH25RCH6CK6AEA
GP680 UHF1 MPT	ATEX Type PW531H w/Option Board (12,5 kHz)	MDH25RCH4CK6AEASP1
GP680 UHF1 MPT	ATEX Type PW511H w/Option Board (25,0 kHz)	MDH25RCH6CK6AEASP1

15.2 Description

The radio type GP\*\*\* is a handheld radiotelephone and it serves for communication in the UHF band. An antenna type PMAE4002A, type PMAE4003A, type NAE6483AR or type NAE6522AR is connected to the radio.

For the supply of the radio the battery type NNTB5510AR is used. The battery will be charged only outside the potentially explosive atmospheres.

Inside a potentially explosive atmospheres the radio must be used within one of the listed leather cases:

GMLN1110A, GMLN1111A, GMLN1112A or GMLN1113A

The following accessories

GMLN1108A	adaptor type GP340/Ex (TÜV 04 ATEX 2485) only for use with ELB4638B, ELB4640B or EDN7702B
GMLN1109A	hear-/speak system type ContactCom/Ex-1 (TÜV 03 ATEX 2100) with connector/adapter type GP340/Ex (TÜV 04 ATEX 2485)
GMLN1114A	hear-/speak system type PTT/Ex-1 (TÜV 03 ATEX 2124) with ASR headset/Ex (TÜV 03 ATEX 2020) – supplied from the radio with the connector/adapter type GP340/Ex (TÜV 04 ATEX 2485)
GMLN1117A	hear-/speak system type PTT/Ex-1 (TÜV 03 ATEX 2124) with connector/adapter type GP340/Ex (TÜV 04 ATEX 2485)
ELN4638B	hear-/speak system type Contact Com/Ex-1 with 12 pin plug (TÜV 03 ATEX 2100)
EDN7702B	PTT hear-/speak system type PTT/Ex-1 (TÜV 03 ATEX 2124) with ASR headset/Ex (TÜV 03 ATEX 2020) – supplied from the radio
ELN4640B	lightweight headset 12 pin connector type PTT/Ex-1 (TÜV 03 ATEX 2124) can be connected to the radio. These accessories are only connected outside the potentially explosive atmospheres.

The permitted ambient temperature range for the radio and the battery is  $-20\text{ °C} \leq T_a \leq +50\text{ °C}$ . In combination with the listed accessories the allowed ambient temperature range is  $-20\text{ °C} \leq T_a \leq +40\text{ °C}$

### 15.3 Parameters

#### 15.3.1 Electrical data

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

#### 15.3.2 Ambient temperature range

for the radio and the battery	$-20\text{ °C} \leq T_a \leq +50\text{ °C}$
in combination with the allowed accessories	$-20\text{ °C} \leq T_a \leq +40\text{ °C}$

#### (16) Test and assessment report

BVS PP 05.2054 EG as of 24.06.2005

#### (17) Special conditions for safe use

none

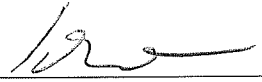
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We confirm the correctness of the translation from the German original.  
In the case of arbitration only the German wording shall be valid and binding.

44809 Bochum, 25.08 2005  
BVS-Ha/Ar A 20040664

**EXAM BBG Prüf- und Zertifizier GmbH**

  
\_\_\_\_\_  
Certification body

  
\_\_\_\_\_  
Special services unit