Translation

(1) # EC-Type Examination Certificate

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

(3) ## BVS 08 ATEX E 143 X

(4) **Equipment:** **Radiotelephone type MTP850 Ex – 2D**

(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 08.2163 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 61241-11:2006	Intrinsic safety "iD"

(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 2D Ex ibD 21 IP6x T90°C

DEKRA EXAM GmbH
Bochum, dated 07. November 2008

Signed: Dr. Jockers
Certification body

Signed: Dr. Eickhoff
Special services unit

This certificate may only be reproduced in its entirety and without change
DEKRA EXAM GmbH Dinnendahlstrasse 9 44809 Bochum Germany Phone +49 234/3696-105 Fax +49 234/3696-110 E-mail zs-exam@dekra.com

(13) Appendix to

(14) # EC-Type Examination Certificate

BVS 08 ATEX E 143 X

(15) 15.1 Subject and type

Radiotelephone type MTP850 Ex - 2D

name	type description	model number
MTP850 Ex – 2D	PT911BSEx	H01PCF6TZ5BN

15.2 Description

The radiotelephone type MTP850 Ex - 2D is a handheld radiotelephone and it serves for communication in the UHF band.

The following antennas can be connected to the radio:

85007012001 Stuby (Short) 380 – 430MHz
8587526V14 Stuby (Medium) 380 – 430MHz
8575279M01 Whip (Long) 380 – 430 MHz

For the supply of the radio the battery type NNTN7383A (BVS 08 ATEX E 097) 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:

PMLN5287A Hard Leather Carry Case,
PMLN5288A Soft Leather Carry Case,
PMLN5004A Shoulder Wearing Device,
PMLN5134A Belt Clip (2.5 inch),
NTN5243A Shoulder Strap.

The following accessories

PMMN4058A	Remote Speaker Microphone	(BVS 08 ATEX E 107),
PMLN5389A	Over the Head Heavy-duty Headset	(BVS 07ATEX E 160),
PMLN5390A	Behind the Head Heavy-duty Headset	(BVS 07ATEX E 160),
PMLN5391A	Over the Head Lightweight Headset	(BVS 07ATEX E 160),
PMLN5392A	Behind the Head Lightweight Headset	(BVS 07ATEX E 160),
PMMN4063A	Throat Microphone with 80 mm PTT Button	(BVS 07ATEX E 160)

can be connected to the radios.

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

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

The permitted ambient temperature range for the radio, the battery and the accessories is -20°C ≤ Ta ≤ +50°C.

15.3 Parameters

15.3.1 Electrical data

frequency range:	380 – 430	MHz
output power		
under normal condition:	1	W
under fault condition (ib) :	< 2	W
15.3.2 Ambient temperature range	-20°C ≤ Ta ≤ +50°C	

(16) Test and assessment report

BVS PP 08.2163 EG as of 07.11.08

(17) Special conditions for safe use

In the potentially hazardous dust atmospheres the radio must be protected against impact with energies higher than 4 Joule to the enclosure and 2 Joule to the display lens.

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, 26. November 2008
BVS-Ha / Her A 20080838

DEKRA EXAM GmbH

Certification body

Special services unit

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