



## 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 097**

(4) **Equipment:** Battery type NNTN7383A

(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 08.2126 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 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**

**II 2D Ex ibD 21 IP6x T90°C**

**DEKRA EXAM GmbH**

Bochum, dated 11. August 2008

Signed: Dr. Eickhoff

Signed: Dr. Wittler

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Certification body

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Special services unit

(13) Appendix to

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

**BVS 08 ATEX E 097**

(15) 15.1 Subject and type

Battery type NNTN7383A

15.2 Description

The battery type NNTN7383A is an intrinsic safety battery for use with Motorola radios from the families MTP 850 Ex and MTP 810 Ex. A clip type MLN5134A or type PMLN5004A can be connected to the battery.

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

The permitted ambient temperature range for the battery is  $-20\text{ °C} \leq T_a \leq +50\text{ °C}$ .

15.3 Parameters

15.3.1 Output

Output voltage			
Under normal condition	$U_o \leq 8.4$	VDC	
Under fault condition (ib)	$U_o \leq 8.4$	VDC	
Output current			
Under fault condition (ib)	$I_k \leq 1.5$	ADC	
Max. effective internal capacitance	$C_i$	0.023	$\mu\text{F}$
Max. effective internal inductance	$L_i$	8.34	$\mu\text{H}$

The values of the connectable capacitance and inductance will be evaluated with the Motorola radio

15.3.2 Charging input

The charging input will be used only outside the potentially explosive atmospheres only with the in the document 68009199001-A listed chargers.

Max charging voltage under fault condition  $U_m \leq 8.66$  VDC

15.3.3 Ambient temperature range  $-20\text{ °C} \leq T_a \leq +50\text{ °C}$

(16) Test and assessment report

BVS PP 08.2126 EG as of 11.08.08

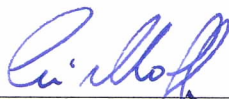
- (17) Special conditions for safe use  
None

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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, 29.08.2008  
BVS-Ha/Ar A 20080556

**DEKRA EXAM GmbH**



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Certification body



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Special services unit