



Translation

EC-Type Examination Certificate

(1)

(2)

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

(3)

BVS 08 ATEX E 038 X

(4)

Equipment: 3D-Level-Scanner type S DX B * V * A B, type M DX B * V * A B and type MV DX B * V * A B

(5)

Manufacturer: A.P.M. Automation Solutions Ltd.

(6)

Address: 69710 Tel Aviv

(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 08.2200 EG.

(9)

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

EN 61241-0:2006 General requirements
EN 61241-11:2006 Protection by IS
EN 60079-11:2007 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 1/2D Ex ibD/iaD 20/21 T110°C

DEKRA EXAM GmbH

Bochum, dated 19. January 2009

Signed:

Dr. Eickhoff

Certification body

Signed:

Ruhnau

Special services unit

15.3 Parameters

15.3.1 Electrical

Parameters	Supply circuit) ¹		Interface	
	Input) ¹	Output) ²	4 -20 mA	RS 485
Level of protection	Ex ibD	Ex ibD	Ex iaD	Ex iaD
Voltage U _i	DC 24 V	N / A	DC 10.5 V	DC 5 V
Current I _i	)³	N / A	106 mA	2 x 0.5 A
Power P _i	3 W	N / A	1.1 W	2 x 0.5 A
internal effective capacitance C _i	4 nF		8 nF	0 nF
internal effective inductance L _i	negligible		negligible	0 mH
Voltage U _o	N / A	DC 24 V) ³	DC 10.5 V	DC 5 V
Current I _o	N / A	)³	106 mA	2 x 0.5 A
Power P _o	N / A	3 W) ³	1.1 W	2 x 625 mW
max. external capacitance C _o	N / A	)⁴	16 μF	2 x 500 μF
max. external inductance L _i	N / A	)⁴	80 μH	142 μH
max. inductance- / resistance ratio L _o /R _o	N / A	)⁴	17.77 μH/Ω	113.7 μH/Ω
Characteristics	N / A	)³	trapezoid	linear
Terminals	J12.1 (+), J12.2 (GND)	J13.1 (+), J13.2 (GND)	J12.4 (4 - 20 mA signal), J12.3 (GND common with J12.2)	J13.3 (P), J13.4 (N)
Remarks:;) ¹ shall be connected only to IS power supply devices providing level of protection 'ib' Group IIB as a minimum) ² J12.1, J12.2 directly connected to J13.1, J13.2) ³ same values as of attached IS power supply) ⁴ same values as of attached IS power supply reduced by C _i , L _i N / A = not applicable				

15.3.2 Sonic radiation

Radiated power (average power density)	≤	0.1 W/cm ²
Pulse radiation	≤	2 mJ/cm ²
Frequency range		3.5 kHz ≤ f ≤ 10 kHz

15.3.3 Ambient temperature range: -40 °C ≤ T_a ≤ +85 °C

(16) Test and assessment report

BVS PP 08.2200 EG as of 19.01.2009

(17) Special conditions for safe use

- 17.1 The installation of the 3D-Level-Scanner in the wall to areas requiring category 1D equipment shall provide a degree of protection IP6X according to EN 60529.
- 17.2 The installation of the 3D-Level-Scanner in the wall to areas requiring category 1D equipment shall be carried out in such a way, that all metallic parts are integrated in the local equipotential bonding.
- 17.3 Manufacturer's technical information related to use of the 3D-Level-Scanner in contact with aggressive / corrosive media and to avoid any risk of mechanical impact shall be observed.

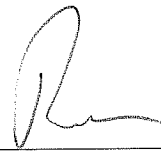
We confirm the correctness of the translation from the German original.
In the case of arbitration only the German wording shall be valid and binding.

44809 Bochum, 19. January 2009
BVS-Scha / Her A 20070774

DEKRA EXAM GmbH



Certification body



Special services unit