

(2)

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Translation

(1) EC-Type Examination Certificate

- Directive 94/9/EC -

Equipment and protective systems intended for use in potentially explosive atmospheres

DMT 02 ATEX E 099

(4) Equipment: Fieldgate Type FXA520-G-***

(5) Manufacturer: Endress + Hauser GmbH + Co. KG

(6) Address: D 79690 Maulburg

- (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 Deutsche Montan Technologie 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 02.2050 EG.

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

EN 50014:1997+A1-A2 General requirements EN 50020:1994 Intrinsic safety 'i'

EN 50284:1999 Equipment Group II Category 1G

EN 50281-1-1:1998 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

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:

(Ex) II (1) GD [EEx ia] IIC

Deutsche Montan Technologie GmbH

Essen, dated 07. June 2002

Signed: Jockers Signed: Eickhoff

DMT-Certification body Head of special services unit



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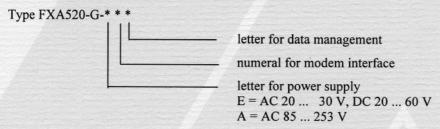
Appendix to

EC-Type Examination Certificate DMT 02 ATEX E 099

(15) 15.1 Subject and type

Fieldgate type FXA520-G-***

Instead of the *** in the complete denomination letters and numerals will be inserted which characterise the following variations:



15.2 Description

The Fieldgate is used for management of parameters and data of HART equipment.

The device comprises a number of components as transformers, fuses, resistors and zener diodes, all mounted on printed boards. These boards are located in a plastic enclosure with terminals; this enclosure will be mounted outside the hazardous area.

15.3 Parameters

15.3.1	Dawaria	mml.	aimanit !	(terminal	- 1	2)
13.3.1	LOWEL S	uppiv	Circuit	termina	S	- 41

15.3.1.1	Type FXA520-G-A**		
	Nominal voltage		

	AC	85 253	V
Um			
	Um		Um AC 85 253 AC 253

15.3.1.2 Typ - type FXA520-G-E**

Nominal voltage		AC	20 30	V
			20 60	
max. voltage	Um	AC	253	V

15.3.2 Intrinsically safe circuits (terminals 21 – 22 and 23 – 24)

Values for each circuit			
Voltage	Uo	DC	6.5 V
Current	Io		6 mA
Power	Po		9,8 mW

max. external values in accordance with the following table

Group	Capacitance	Inductance	
	Co [µF]	Lo [mH]	
IIC	25	1000	
IIB	570	1000	



if inductances and capacitances are concentrated the following values apply:

Group	Capacitance	Inductance
	Co [µF]	Lo [mH]
	2	0,5
IIC	2	1
	1,5	5
	10	1
IIB	10	2
	7	5

	Voltage	Ui		DC	30	V
	effective internal inductance		Li	negligible		
	effective internal capacitance		Ci	negligible		
15.3.3	Ambient temperature range	Ta				
	Separate mounting			0 °C up to +60 °C		O°C
	Row mounting				up to +50	

- (16) Test and assessment report
 BVS PP 02.2050 EG as of 07.06.02
- (17) <u>Special conditions for safe use</u> None

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.

45307 Essen, 07. June 2002 BVS-Schu/Ar A 20020180

Deutsche Montan Technologie GmbH

Head of special services unit