



Translation

- (1) **EC-Type Examination Certificate**
- (2) **- Directive 94/9/EC -**
Equipment and protective systems intended for use
in potentially explosive atmospheres
- (3) **DMT 01 ATEX E 011**
- (4) **Equipment: Fieldbus-Valve-Positioner Type FY302/303 ***-*.****
- (5) **Manufacturer: smar Equipamentos Industriais Ltda**
- (6) **Address: BR - 14160 -000 Sertaozinho-SP (Brazil)**
- (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 01.2006 EG.
- (9) The Essential Health and Safety Requirements are assured by compliance with:
- | | |
|---------------------|--------------------------|
| EN 50014:1997+A1-A2 | General requirements |
| EN 50018:1994 | Flameproof enclosure 'd' |
| EN 50020:1994 | 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 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 d [ia] IIC T6

Deutsche Montan Technologie GmbH

Essen, dated 05. Januar 2001

Signed: Dr. Jockers

Signed: Dr. Dill

DMT-Certification body

Head of special services unit

(13)

Appendix to

(14)

EC-Type Examination Certificate

DMT 01 ATEX E 011

 (15) 15.1 Subject and type

Fieldbus-Valve Positioner

 without LCD-display
 with LCD-display

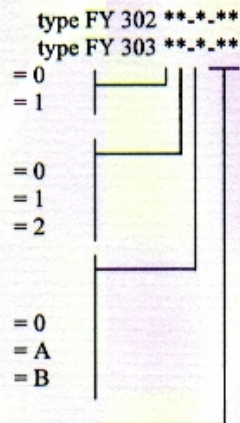
Mounting bracket for 2" pipe mounting

 without
 carbon steel
 316 SST

 Electrical connections
 (certified EEx d cable glands)

 1/2-14 NPT
 M20x1,5
 Pg 13,5 DIN

Optional items (housing material)



15.2 Description

The Fieldbus-Valve-Positioner type FY 302 **.*.** / FY 303 **.*.** is an intrinsically safe supplied apparatus comprising a flameproof light alloy or stainless steel enclosure (EC-Type Examination Certificate Nemko 00 ATEX 305) for single (spring return) or double acting linear motion type control valves and rotary motion control valves.

The Fieldbus-Valve-Positioner type FY 302-**-*.** / FY 303-**-*.** is designated for the installation in hazardous areas requiring category 2 apparatus.

The versions FY 302 **.*.** and FY 303 **.*.** are identical except for internal programming.

15.3 Parameters

Supply- and signal-circuit designated for the connection to an intrinsically safe fieldbus-circuit (FISCO-Model)

Voltage	U_i	DC	24 V
Current	I_i		250 mA
	I_n		15 mA
Power	P_i		1500 mW
Effective internal capacitance	C_i	\leq	5 nF
Effective internal inductance	L_i		negligible



(16) Test and assessment report
BVS PP 01.2006 EG as of 05.01.2001


(17) Special conditions for safe use
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, 05.01.2001
BVS-Scha/Ar A 9900506

Deutsche Montan Technologie GmbH


DMT-Certification body


Head of special services unit