Translation

(1) 2nd Supplement to the EC-Type Examination Certificate

(2) Equipment and protective systems intended for use in potentially explosive atmospheres - Directive 94/9/EC
Supplement accordant with Annex III number 6

(3) No. of EC-Type Examination Certificate: **DMT 00 ATEX E 064**

(4) Equipment: **Current-to-Fieldbus Converter type IF302/303 **-*-****

(5) Manufacturer: **smar Equipamentos Industriais Ltda.**

(6) Address: **Av. Dr. Antonio Furlan Jr. 1028, 14170-480 Sertaozinho-SP, Brasil**

(7) The design and construction of this equipment and any acceptable variation thereto are specified in the appendix to this supplement.

(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 00.2056 EG.

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

EN 60079-0:2012 + A11:2013 General requirements
EN 60079-11:2012 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 supplement to the 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 component shall include the following:

II 2G Ex ia IIC T4 / T5 / T6 Gb
I M2 Ex ia I Mb

DEKRA EXAM GmbH
Bochum, dated 2015-10-22

Signed: Simanski
Certification body

Signed: Dr. Wittler
Special services unit

DEKRA EXAM GmbH, Dinnendahlstrasse 9, 44809 Bochum, Germany,
telephone +49.234.3696-105, Fax +49.234.3696-110, zs-exam@dekra.com

(13) Appendix to

(14) **2nd Supplement to the EC-Type Examination Certificate DMT 00 ATEX E 064**

(15) 15.1 Subject and type

Current-to-Fieldbus Converter type IF302/303 **-*-**

Type code: unchanged

15.2 Description

The status of applied standards in the certificate has been subjected to update as listed in item (9).

Previous electronic assemblies of the Current-to-Fieldbus Converter may be replaced optionally by new variants.

Applicable requirements of EN 60079-27:2008 (FISCO Model) are included in the updated Standards.

Safety-relevant constructive details and parameters remain unchanged.

15.3 Parameters

15.3.1 Supply circuit for the connection to an intrinsically safe FISCO fieldbus-circuit

Voltage	U_i	DC	24	V
Current	I_i		380	mA
Power	P_i		5.32	W
Effective internal capacitance	C_i	≤	5	nF
Effective internal inductance	L_i		negligible	

Parameters of the supply circuit comply with FISCO model according to Annex G EN 60079-11:2012, replacing EN 60079-27:2008.

15.3.2 Input-signal-circuits;
three 0 - 20 mA or 4 - 20 mA signal inputs with common ground

Input-impedance (load impedance)	R_i	100 Ω
Effective internal capacitance	C_i	negligible
Effective internal inductance	L_i	negligible

Safety-relevant maximum values for certified intrinsically safe 0 -20 mA or 4 -20 mA signal circuits as a function of ambient temperature and temperature class

Maximum ambient temperature	Temperature class	Voltage U_i	Current I_i	Power P_i
$T_a \leq 60$ °C	T4	DC 28 V	93 mA	750 mW
$T_a \leq 50$ °C	T5	DC 28 V	93 mA	750 mW
$T_a \leq 40$ °C	T6	DC 28 V	93 mA	570 mW

The signal inputs provide save galvanic separation from the fieldbus circuit.

15.3.3 Ambient temperature range: $-40\ °C \leq T_a \leq +60\ °C$

(16) Test and Assessment Report

BVS PP 00.2056 EG as of 2015-10-22

(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.

DEKRA EXAM GmbH
44809 Bochum, 2015-10-22
BVS-Scha/Mu A20121111

Certification body

Special services unit

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