



1st Supplement

(Supplement in accordance with Directive 94/9/EC Annex III number 6)

to the EC-Type Examination Certificate DMT 00 ATEX E 064

Equipment: Current-to-Fieldbus Converter Type IF302/303 **_**_**
Manufacturer: smar Equipamentos Industriais Ltda.
Address: BR 14170-480 Sertaozinho-SP (Brazil)


Description

The Current-to-Fieldbus Converter can be modified according to the descriptive documents as mentioned in the pertinent test and assessment report.

The Essential Health and Safety Requirements of the modified equipment are assured by compliance with:

EN 60079-0:2006 General requirements
EN 60079-11:2007 Intrinsic safety 'i'
EN 60079-27:2008 FISCO Model

The marking of the modified equipment shall include the following:

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

Parameters

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	\leq	5	nF
Effective internal inductance	L_i		negligible	

Parameters of the supply circuit comply with FISCO model according to EN 60079-27:2008)

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;

Ambient temperature	Temperature class	Voltage U_i	Current I_i	Power P_i
$T_a \leq 60^\circ\text{C}$	T4	DC 28 V	93 mA	750 mW
$T_a \leq 50^\circ\text{C}$	T5	DC 28 V	93 mA	750 mW
$T_a \leq 40^\circ\text{C}$	T6	DC 28 V	93 mA	570 mW

The signal inputs are galvanically separated from the fieldbus circuit.

15.3.4 The Current-to-Fieldbus Converter is suitable for operation in the following ambient temperature range:
 $-40^\circ\text{C} \leq T_a \leq +60^\circ\text{C}$

3. With regard to explosion protection requirements the Current-to-Fieldbus Converter is suitable for operation in the following ambient temperature range:
 $-40^\circ\text{C} \leq T_a \leq +60^\circ\text{C}$

Special conditions for safe use

None

Test and assessment report

BVS PP 00.2056 EG as of 02.03.2009

DEKRA EXAM GmbH

Bochum, dated 02. March 2009

Signed: Simanski
Certification body

Signed: Dr. Eickhoff
Special services unit

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, 02. March 2009
BVS-Scha / Her A 20070684

DEKRA EXAM GmbH

A handwritten signature in blue ink, appearing to read 'D. A. Schick', written over a horizontal line.

Certification body

A handwritten signature in blue ink, appearing to read 'L. M. H. H.', written over a horizontal line.

Special services unit