



Translation
1st Supplement

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

**to the EC-Type Examination Certificate
DMT 00 ATEX E 065**

Equipment: Fieldbus-To-Current Converter Type FI 302/303**-*_*_*_*
Manufacturer: smar Equipamentos Industriais Ltda.
Address: 14170-480 Sertaozinho-SP, Brazil

Description

The Fieldbus-To-Current 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. Output-signal-circuits;
three 4 - 20 mA current sinks with common ground for external intrinsically safe supply

effective internal capacitance C_i negligible
effective internal inductance L_i negligible

Safety-relevant maximum values for certified intrinsically safe 4 -20 mA current loop circuits as a function of ambient temperature and temperature class;

Maximum ambient temperature	Temperature class	Voltage U_i	Current I_i	Power P_i
$T_a \leq 60 \text{ }^\circ\text{C}$	T 4	DC 28 V	93 mA	750 mW
$T_a \leq 50 \text{ }^\circ\text{C}$	T 5	DC 28 V	93 mA	750 mW
$T_a \leq 40 \text{ }^\circ\text{C}$	T 6	DC 28 V	93 mA	570 mW

The signal outputs are galvanically separated from the fieldbus circuit.

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

Special conditions for safe use

None

Test and assessment report

BVS PP 00.2057 EG as of 27.02.2009

DEKRA EXAM GmbH

Bochum, dated 27. February 2009

Signed: Dr. Eickhoff
Certification body

Signed: Dr. Wittler
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, 27.02.2009
BVS-Scha/Ar A 20070684

DEKRA EXAM GmbH


Certification body


Special services unit