



## 1st Supplement

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

### to the EC-Type Examination Certificate **DMT 01 ATEX E 151**

Equipment:

Concentration/Density-Transmitter type DT 301\*-\*\*\*-\*\*\*/\*\*

Manufacturer:

smar Equipamentos Industriais Ltda.

Address:

BR 14170-480 Sertaozinho-SP (Brazil)

#### Description

The Concentration/Density-Transmitter 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 60079-26:2004 Equipment Group II Category 1G

EN 50303:2000

Equipment Group I Category M1

The marking of the equipment shall include the following:



# II 1/2G Ex ia IIC T4/T5/T6

### Parameters

Supply and signal circuit designed for the connection to an intrinsically safe 4 to 20 mA current loop

Voltage	$U_{i}$	DC	28	V
Current	$I_i$		93	mA
Effective internal capacitance	$C_{i}$	$\leq$	5	nF
Effective internal inductance	$L_i$	negligible		



 Maximum permissible power for certified intrinsically safe supply and signal circuits as a function of ambient temperature and temperature class

Max. ambient- temperature T <sub>a</sub>	Temperature- class	Power P <sub>i</sub>
85 °C	T 4	700 mW
75 °C	T4	760 mW
44 °C	T5	760 mW
50 °C	T 5	700 mW
55 °C	T 5	650 mW
60 °C	T 5	575 mW
65 °C	T 5	500 mW
70 °C	T 5	425 mW
40 °C	T 6	575 mW

3.	Amhient	temperature	range
W .	Timoreme	temperature	runge.

 $-40^{\circ}C \le T_a \le +85^{\circ}C$ 

Special conditions for safe use

None

Test and assessment report

BVS PP 01.2129 EG as of 02.03.2009

### **DEKRA EXAM GmbH**

Bochum, dated 02. March 2009

Signed:	Signed:	
Simanski	Dr. Eickhoff	
Certification body	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 20070678

DEKRA EXAM GmbH

Certification body

Special services unit