



# (13)

(14)

# **Appendix**

EC-Type Examination Certificate SEV 04 ATEX 0149

#### (15)Description of the equipment

The STS Type TM/.../Ex pressure transmitter is a passive, piezoresistive pressure measuring bridge. The output signal (which is proportionate to the pressure) of the pressure measuring bridge designed according to Wheatstone is transferred in intrinsic-safety type of protection via various connection variants.

# Ratings

Measurement and supply circuit in intrinsic-safety type of protection EEx ia IIC only for connection to a certified intrinsically safe circuit.

Maximum values:

I <sub>i</sub>	≤	300	mA
$P_i$	≤	1.2	W
Ci	=	0	nF
$C_{\kappa}$	=	0.12	nF
Li	=	0	mΗ
$L_{K}$	=	0.001	mΗ
	Pi Ci Ck Li Lk	L <sub>i</sub> =	$P_{i} \leq 1.2$ $C_{i} = 0$ $C_{K} = 0.12$ $L_{i} = 0$

(16)Test Report 04-IK-0168.01

- (17)Special requirements
  - none
- Fundamental essential health and safety requirements Fulfilled by the standards applied
- (19)Marking

The marking of the equipment shall include the following:

	U		
⟨£x⟩	II 2G	EEx ia IIC T3 T6	
	II 1D	T90°C IP6x	Standard design
⟨£x⟩	II 1G	EEx ia IIC T3 T6	
_	II 1D	T90°C IP6x	Execution Zone 0
$\langle \epsilon_x \rangle$	II 2G	EEx ia IIB T4 T6	
	II 1D	T90°C IP6x	<b>Execution plastic</b>

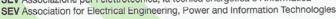
#### **Electrosuisse**

Certification Body ATEX

Fehraltorf, 2004-08-26

Fritz Beglinger

Manager Product Certification







### **EC-Type Examination Certificate** (1)

- Equipment or protective system intended for use in potentially explosive (2)atmospheres - Directive 94/9/EC
- **Examination Certificate Number** (3)

## **SEV 04 ATEX 0149**

(4) Equipment: Type TM/.../Ex pressure transmitter

(5) Manufacturer: STS Sensor Technik Sirnach AG

(6)Address: Rütihofstrasse 8, CH-8370 Sirnach

- The equipment and any acceptable variation thereto is specified in the schedule to this (7)certificate and the documents therein referred to.
- SEV as notified body No. 1258 in accordance with article 9 of the Council Directive of the (8)European Communities of 23 March 1994 (94/9/EC), certifies that this equipment has been found to comply with the essential health and safety requirements relating to the design and construction of equipment or protective systems intended for use in potentially explosive atmospheres given in Annex II to the Directive.

The results of the examination are recorded in confidential report No. 04-IK-0168.01

Compliance with the essential health and safety requirements has been assured by compliance (9)with:

EN 1127-1:1997 EN 50284:1999

EN 50014:1997 +A1 +A2 EN 50281-1-1:1998 +A1

EN 50020:2002

- If the sign «X» is placed after the certificate number, it indicates that the equipment or protective system is subject to special conditions for safe use specified in the schedule to this certificate.
- This examination certificate relates only to design and construction of the specified equipment (11)in accordance to the directive 94/9/EC. Further requirements of this directive apply to the manufacturing process and the placing on the market of the equipment.
- The marking of the equipment shall include the following: (12)

see Appendix page 2: (19) Marking

**Electrosuisse** 

Certification Body ATEX

Fehraltorf, 2004-08-26

Fritz Beglinger

Manager Certification