

Appendix

(13)

(14) **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:

U_i	\leq	20	V
I_i	\leq	300	mA
P_i	\leq	1.2	W
C_i	$=$	0	nF
C_K	$=$	0.12	nF
L_i	$=$	0	mH
L_K	$=$	0.001	mH

Effective inner capacitance:

Plus the length of the connecting cable in metres:

Effective inner inductance:

Plus the length of the connecting cable in metres:

(16) Test Report

04-IK-0168.01

(17) Special requirements

none

(18) Fundamental essential health and safety requirements

Fulfilled by the standards applied

(19) Marking

The marking of the equipment shall include the following:

	II 2G	EEx ia IIC T3 ... T6	Standard design
	II 1D	T90°C IP6x	
	II 1G	EEx ia IIC T3 ... T6	Execution Zone 0
	II 1D	T90°C IP6x	
	II 2G	EEx ia IIB T4 ... T6	Execution plastic
	II 1D	T90°C IP6x	

Electrosuisse

Certification Body ATEX

Fehraltorf, 2004-08-26



Fritz Beglinger
 Manager Product Certification



EC-Type Examination Certificate

- (1)
- (2) Equipment or protective system intended for use in potentially explosive atmospheres - **Directive 94/9/EC**
- (3) Examination Certificate Number
SEV 04 ATEX 0149
- (4) Equipment: Type TM/.../Ex pressure transmitter
- (5) Manufacturer: STS Sensor Technik Sirmach AG
- (6) Address: Rütihofstrasse 8, CH-8370 Sirmach
- (7) The equipment and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.
- (8) SEV as notified body No. 1258 in accordance with article 9 of the Council Directive of the 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
- (9) Compliance with the essential health and safety requirements has been assured by compliance with:
- | | | |
|-----------------------|------------------------------|----------------------|
| EN 1127-1:1997 | EN 50014:1997 +A1 +A2 | EN 50020:2002 |
| EN 50284:1999 | EN 50281-1-1:1998 +A1 | |
- (10) 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.
- (11) This examination certificate relates only to design and construction of the specified equipment 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.
- (12) The marking of the equipment shall include the following:

 see Appendix page 2: (19) Marking

Electrosuisse
Certification Body ATEX

Fehraltorf, 2004-08-26

Fritz Beglinger
Manager Certification