



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

(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 incl. addendum 1

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

EN 1127-1:2007

EN 60079-0:2009

EN 60079-11:2007

EN 60079-26:2007

EN 61241-11:2006

(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 with 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 SEV
Certification Body ATEX

Martin Plüss
Product Certification

Fehraltorf, 2010-10-11

Replaces certificate dated
2004-08-26
Extension 1; new issued Standards

(13)

Appendix

(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 Ex 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	Ex ia IIC T3 ... T6	
	II 1D	Ex iaD 20 T135°C ... T90°C IP6x	Standard design
	II 1G	Ex ia IIC T3 ... T6	
	II 1D	Ex iaD 20 T135°C ... T90°C IP6x	Design for Zone 0
	II 2G	Ex ia IIB T4 ... T6	
	II 1D	Ex iaD 20 T135°C ... T90°C IP6x	Design with plastic connector

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