



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

- (2) Equipment or protective system intended for use in potentially explosive atmospheres - **Directive 2014/34/EU**
- (3) Certificate number: **SEV 20 ATEX 0418 X**
- (4) Product: Pressure transmitter
Type PTM.MT/N/Ex, PTM.MT/Ex
- (5) Manufacturer: STS Sensor Technik Sirmach AG
- (6) Address: Rütihofstrasse 8, 8370 Sirmach, Switzerland
- (7) The equipment and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.
- (8) Eurofins, notified body No. 1258, in accordance with article 17 of Directive 2014/34/EU of the European parliament and of the council, dated 26 February 2014, certifies that this product has been found to comply with the essential health and safety requirements relating to the design and construction of products intended for use in potentially explosive atmospheres given in Annex II to the Directive.
The examination and test results are recorded in confidential report no 20CH-00973.X02
- (9) Compliance with the essential health and safety requirements has been assured by compliance with:

EN IEC 60079-0:2018
EN 60079-11:2012

Except in respect of those requirements listed at item 18 of the schedule.

- (10) If the sign «X» is placed after the certificate number, it indicates that the product is subjected to special conditions for safe use specified in the schedule to this certificate. The sign “U” is placed after the certificate number. It indicates that this certificate must not be mistaken for a certificate intended for an equipment or protective system. This partial certification may be used as a basis for certification of an equipment or protective system.
- (11) This EU type examination certificate relates only to design and construction of the specified product. Further requirements of this directive apply to the manufacturing process and supply of this product. These are not covered by this certificate.
- (12) The marking of the product shall include the following:



See page 2

Eurofins Electric & Electronic Product Testing AG
Notified Body ATEX

Martin Plüss
Product Certification

(13)

Appendix

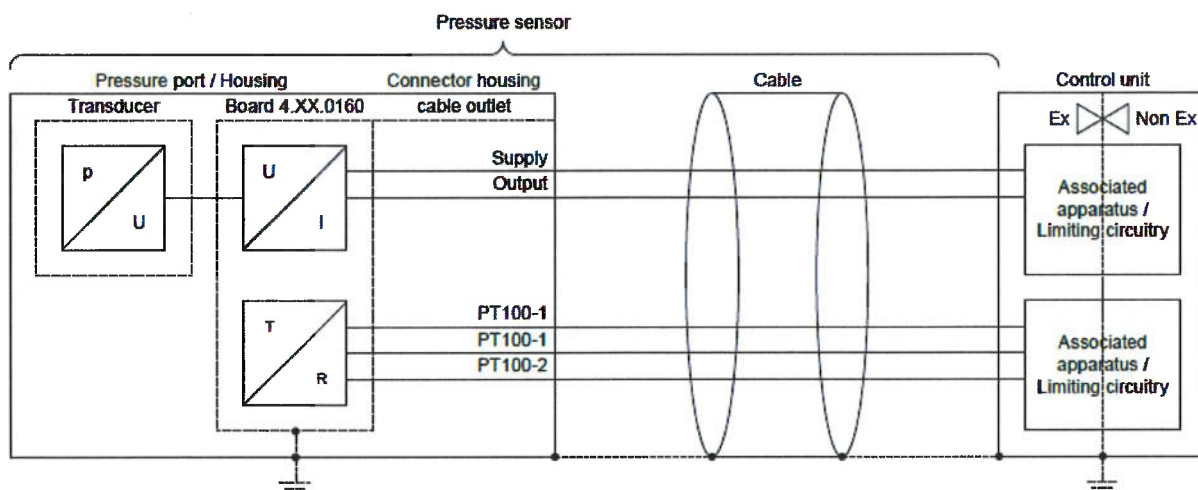
(14)

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(15) **Description of product**


The sensor contains two independent electrical circuits; pressure sensor and temperature sensor. The circuits are separated on the PCB. The temperature is measured with a PT100, which is a simple apparatus.

The sensor is delivered with a mounted cable. The cable is shielded and the shield is directly connected to the sensor housing. The cable output is connected to a control unit (zener barrier) which contains the electrically limiting parts of the systems. The product is used as a liquid level transmitter.




Marking:

For transmitter with cable outlet of metallic connector:

 II 1G Ex ia IIC T6...T4 Ga
 II 1D Ex ia IIIC T200 125°C Da

For all other transmitter:

 II 2G Ex ia IIB T6...T4 Gb
 II 1D Ex ia IIIC T200 125°C Da

Ambient temperature range:

For Gas application:

Temperature Class	Ambient temperature	Medium temperature
T6	$-20\text{ °C} \leq T_{amb} \leq 50\text{ °C}$	$-20\text{ °C} \leq T \leq 50\text{ °C}$
T4	$-20\text{ °C} \leq T_{amb} \leq 100\text{ °C}$	$-20\text{ °C} \leq T \leq 100\text{ °C}$

For dust application:

Ambient temperature	Maximum surface temperature
$-20\text{ °C} \leq T_{amb} \leq 85\text{ °C}$	125 °C

Ratings:

Pressure transmitter circuit (+Vin, Pout)

In type of protection intrinsically safe: Ex ia IIC, Ex ia IIIC
only to connect to an certified intrinsically safe circuit:
Maximum ratings:

$$U_i \leq 30 \text{ V}$$

$$I_i \leq 150 \text{ mA}$$

$$P_i \leq 0.70 \text{ W}$$

$$C_i = 33.4 \text{ nF}$$

$$L_i = 0$$

PT100 circuit (+T, -T)

In type of protection intrinsically safe: Ex ia IIC, Ex ia IIIC
only to connect to an certified intrinsically safe circuit:
Maximum ratings:

$$U_i \leq 20 \text{ V}$$

$$I_i \leq 320 \text{ mA}$$

$$P_i \leq 0.1 \text{ W}$$

$$C_i = 0$$

$$L_i = 0$$

(16) Specific conditions of use

For details concerning the admissible ambient temperatures and temperature classes please refer to the user's manual.

The probe with titanium enclosure must be installed protected against impact and friction.

(17) Essential health and safety requirements

In addition to the essential health and safety requirements (EHSRs) covered by the standards listed at item 9, the following are considered relevant to this product, and conformity is demonstrated in the report:

Clause	Subject
None	

(18) Drawings and Documents

See test report "Manufacturer's Documents"