



- (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 11 ATEX 0142 X**
- (4) Product: Pressure transmitter, Type: ATM/Ex, ATM/N/Ex, ATM/F/Ex
- (5) Manufacturer: STS Sensor Technik Sirnach AG
- (6) Address: Rütihofstrasse 8, 8370 Sirnach, 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 19CH-00100.X04
- (9) Compliance with the essential health and safety requirements has been assured by compliance with:
- EN IEC 60079-0:2018**  
**EN 60079-11:2012**  
**EN 50303:2000**
- 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:



**Eurofins Electric & Electronic Product Testing AG**  
**Notified Body ATEX**

Martin Plüss  
Product Certification

(13)

## Appendix

(14)

**EU-Type Examination Certificate no. SEV 11 ATEX 0142 X**

(15) **General product information**

The sensor series ATM/Ex, ATM/N/Ex and ATM/F/Ex with metallic enclosure and cable connection or metallic enclosure with metallic connector are pressure sensors for gasses or liquids designed according to requirements EPL "Ga" or EPL "Da".

The aforementioned types with non-metallic connector and additional the ATM/NC/Ex are pressure sensors for gasses or liquids designed according to requirements EPL "Gb" or EPL "Da".

Rating:	U <sub>i</sub>	=	30 V		
	I <sub>i</sub>	=	100 mA		
	P <sub>i</sub>	=	1.0 W		
	C <sub>i</sub>	=	10 nF + C <sub>k</sub>	=	0.12 nF/m
	L <sub>i</sub>	=	0.1 mH + L <sub>k</sub>	=	0.001 mH/m

Classification of installation and use:	stationary
Ingress protection:	IP6X
Rated ambient temperature range (°C):	See table below

The temperature class depends on ambient-temperature and medium-temperature on the sensor. These relations are shown in the following tables:

For sensor with connectors:

Temperature class	T6	T4	T3
Ambient temperature [°C]	-25 ... 55	-25 ... 85	-25 ... 85
Medium temperature [°C]	-25 ... 55	-25 ... 100	-25 ... 150

For sensor with direct cable entries:

Temperature class	T6	T4
Ambient temperature [°C]	-5 ... 50	-5 ... 80
Medium temperature [°C]	-5 ... 50	-5 ... 80

The relationship between the max. ambient temperature and surface temperature for dust environment and mines application is shown in the following table:

For sensor with connectors:

<b>Surface temperature [°C]</b>	<b>140</b>
Ambient temperature [°C]	85

For sensor with direct cable entries:

<b>Surface temperature [°C]</b>	<b>135</b>
Ambient temperature [°C]	80

See also operating- and safety- instructions 10.88.0437 from STS Sensors with plug connection are delivered without the cable and the connector's counterpart. The end user must install correct connector type and cable for the appliance and must check that no additional ignition risks occur with these parts.

Description of type variations

Type	Metallic enclosure		Non metallic enclosure	Metallic connector housing	Non-metallic connector housing	Cable connection
	stainless steel (SST)	titanium (Ti)				
ATM/Ex	x	x	---	x	x	x
ATM/F/Ex	x	x	---	x	x	x
ATM/N/Ex	x	x	---	x	x	x

x = variation of deliver

(16) **Report number** 19CH-00100.X04

(17) **“Special conditions for safe use” / “Schedule of limitations”**

- Protect pressure transmitters with titanium housing against impact and friction according to IEC 60079-0:2018 (7 joules of impact). In particular, this also applies to use in mines. Here, however, the protection must be correspondingly higher (impacts of 20 joules).
- The metallic enclosure must be earthed.
- The devices must be protected against UV-light (for example daylight or light from luminaires). This applies to all types with a non-metallic connector enclosure and for all non-metallic housings.

Types with metal housing and cable connection or metal housing with metal plug do not need this protection against UV light.

(18) **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	

(19) **Drawings and Documents**


See test report “Manufacturer’s Documents”

(20) **Marking**

Types with metallic enclosure and cable connection or metallic enclosure with metallic connector for zone 0, 20, M1

	II 1 G	Ex ia IIC	T6 ... T3 Ga
	II 1 G	Ex ia IIC	T6 ... T4 Ga (with cable connection)
	II 1 D	Ex ia IIIC	T <sub>200</sub> 140 °C Da
	I M1	Ex ia I Ma	

Types with metallic enclosure and non-metallic connector for zone 1, 2, 20, 21, 22, M2

	II 2 G	Ex ia IIB	T6 ... T3 Gb
	II 1 D	Ex ia IIIC	T <sub>200</sub> 140 °C Da
	I M2	Ex ia I Mb	