



(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 09 ATEX 0108 X**
- (4) Product: Pressure transmitter, Type: ATM.xxx/xx
- (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 19CH-00093.X25
- (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:



See General product information

Eurofins Electric & Electronic Product Testing AG
Notified Body ATEX

Martin Plüss
Product Certification

(13)

Appendix

(14)

EU-Type Examination Certificate no. SEV 09 ATEX 0108 X

(15) **General product information**

The sensor series ATM... are pressure sensors for gasses or liquids designed according to requirements Ex ia.

Type designation ATM.xxx/ stands for both types "ATM.1ST/..." or "ATM.ECO/..."

Type ATM.xxx/Ex, Type ATM.xxx/IS : Types with screwed pressure connection.

Type ATM.xxx/N/Ex: Type with cable suspended into the medium.

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

Type ATM.xxx/Ex Or ATM.xxx/IS	Temperature class		T6	T4	T3
	Ambient temperature	[°C]	50	85	125
	Medium temperature	[°C]	50	110	150

Type ATM.xxx/N/Ex	Temperature class		T6	T4
	Ambient temperature	[°C]	50	80
	Medium temperature	[°C]	50	80

Sensors with plug: The relationship between the max. ambient temperature and surface temperature for dust environment is shown in the following table for zone 20 applications:

Ambient temperature	[°C]	110
Surface temperature	[°C]	160

Sensors with cable outlet: The relationship between the max. ambient temperature and surface temperature for dust environment is shown in the following table for zone 20 applications:

Ambient temperature	[°C]	80
Surface temperature	[°C]	130

The relationship between the max. ambient temperature and surface temperature for dust environment is shown in the following table for zone 21 and 22 applications (without dust layer):

Ambient temperature	[°C]	125
Surface temperature	[°C]	145

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.

The manual contains information about the risks of materials of the connector.

Code (e.g. Ex II T) :


Only versions with metallic plug.

 II 1 G Ex ia IIC T6 ... T3 Ga
 II 1 D Ex ia IIIC T₂₀₀ 160 °C Da
 I M1 Ex ia I Ma

Only versions with cable outlet (cable jacket with metal mesh).

 II 1 G Ex ia IIC T6 ... T4 Ga
 II 1 D Ex ia IIIC T₂₀₀ 160 °C Da
 I M1 Ex ia I Ma

For all other versions:

 II 2 G Ex ia IIB T6 ... T3 Gb
 II 1 D Ex ia IIIC T₂₀₀ 160 °C Da
 I M2 Ex ia I Mb

Remark : Without the European Group Ex code marking the code (same) is unclear for the different types.. Therefore it would be better if is not used the alternative name design by IEC 60079-0: 2012. Better use equipment protection level (Ga for first group types, Gb for the others).

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.1ST/IS	x	x	---	x	x	---
ATM.1ST/Ex	x	x	---	x	x	---
ATM.1ST/N/Ex	x	x	---	---	---	x
ATM.ECO/IS	x	---	---	x	x	---
ATM.ECO/Ex	x	---	---	x	x	---
ATM.ECO/N/Ex	x	---	---	---	---	x

x = variation of deliver

(16) **Report number** 19CH-00093.X25

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

Pressure transmitters made with titanium housing must be adequately protected by appropriate measures in addition to mechanically generated impact and friction sparks.

(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”