



IECEX Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification System for Explosive Atmospheres

for rules and details of the IECEx Scheme visit www.iecex.com

Certificate No.:	IECEX SEV 10.0003X	Page 1 of 4	<u>Certificate history:</u>
Status:	Current	Issue No: 4	Issue 3 (2018-01-24)
Date of Issue:	2022-07-22		Issue 2 (2016-07-14)
Applicant:	STS Sensor Technik Sirnach AG Rütihofstrasse 8 8370 Sirnach Switzerland		Issue 1 (2014-01-16)
Equipment:	Pressure sensing device Type ATM.xxx/xx		Issue 0 (2010-07-13)
Optional accessory:			
Type of Protection:	ia		
Marking:	See Annexe, General product information		



Approved for issue on behalf of the IECEx
Certification Body:

Martin Plüss

Position:

Manager Product Certification

Signature:
(for printed version)

[Handwritten signature]
2022-07-22

Date:
(for printed version)

1. This certificate and schedule may only be reproduced in full.
2. This certificate is not transferable and remains the property of the issuing body.
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Certificate issued by:

Eurofins Electric & Electronic Product Testing AG
Luppenstrasse 3
8320 FEHRALTORF .
Switzerland



E&E



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Manufacturer: **STS Sensor Technik Sirnach AG**
Rütihofstrasse 8
8370 Sirnach
Switzerland

Manufacturing
locations:

This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacturer's quality system, relating to the Ex products covered by this certificate, was assessed and found to comply with the IECEX Quality system requirements. This certificate is granted subject to the conditions as set out in IECEX Scheme Rules, IECEX 02 and Operational Documents as amended

STANDARDS :

The equipment and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards

IEC 60079-0:2017 Explosive atmospheres - Part 0: Equipment - General requirements
Edition:7.0

IEC 60079-11:2011 Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"
Edition:6.0

This Certificate **does not** indicate compliance with safety and performance requirements other than those expressly included in the Standards listed above.

TEST & ASSESSMENT REPORTS:

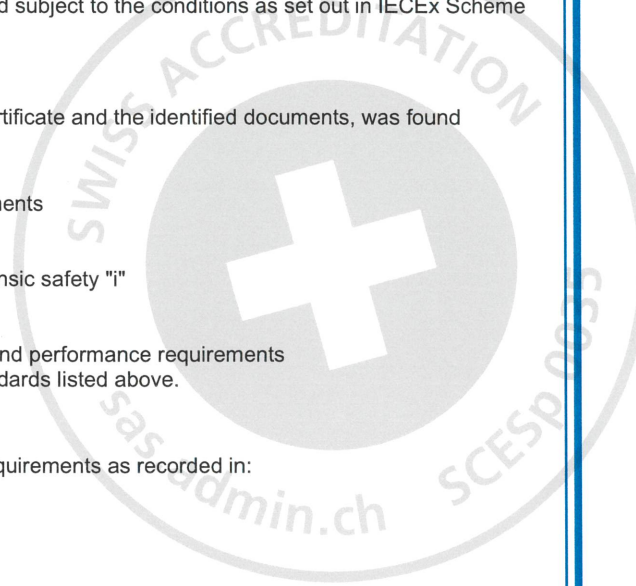
A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in:

Test Report:

[CH/SEV/ExTR10.0003/04](#)

Quality Assessment Report:

[CH/SEV/QAR10.0001/07](#)





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EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

Pressure sensing

Type

ATM.1ST/IS, ATM.1ST/Ex, ATM.1ST/N/Ex,
ATM.ECO/IS, ATM.ECO/Ex, ATM.ECO /N/Ex

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/..."

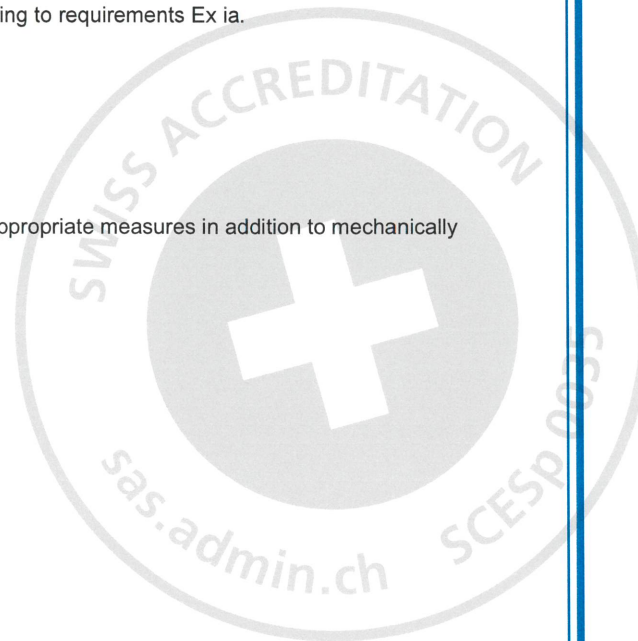
Type ATM.xxx/Ex, Type ATM.xxx/IS : Types with screwed pressure connection.

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

See Annexe for additional information

SPECIFIC CONDITIONS OF USE: YES as shown below:

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





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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)

This certificate replaces Certificate SEV 10.0003X Issue No. 3

The ExTR IEC 60079-0:2017 Edition 7.0 is now applied.
There is a new measurement in dust layer 200mm.
The IEC 60079-26: 2014 Edition 3.0 is no longer required.
New table of type variations in the cover report.
Additional information in the cover report about routine tests.
Update manufacturer documents.

Annex:

[IECEX SEV 10.0003X Issue 4 annexe.pdf](#)



Annexe to: IECEX SEV 10.0003X
Issue No.: 4
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Applicant Name: STS Sensor Technik Sirnach AG
Equipment: Pressure transmitter
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.

 Ex ia IIC T6 ... T3 Ga
 Ex ia IIIC T₂₀₀ 160 °C Da
 Ex ia I Ma

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

 Ex ia IIC T6 ... T4 Ga
 Ex ia IIIC T₂₀₀ 160 °C Da
 Ex ia I Ma

For all other versions:

 Ex ia IIB T6 ... T3 Gb
 Ex ia IIIC T₂₀₀ 160 °C Da
 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