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 19.0022**	Page 1 of 4	Certificate history:
Status:	**Current**	Issue No: 1	Issue 0 (2019-07-02)
Date of Issue:	2022-01-27		
Applicant:	**Hans Turck GmbH & Co. KG** Witzlebenstr. 7 45472 Mülheim an der Ruhr **Germany**		
Equipment:	**Pressure measurement transducer, Type PT * - 15** – IX - ***		
Optional accessory:			
Type of Protection:	**ia**		
Marking:	Ex ia IIC T4 Ga/Gb Ex ia IIIC T120 °C Da/Db		

Approved for issue on behalf of the IECEx Certification Body: **Martin Plüss**

Position: **Manager Product Certification**

Signature: (for printed version)

Date: 2022-01-27

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.
3. The Status and authenticity of this certificate may be verified by visiting www.iecex.com or use of this QR Code.

Certificate issued by:

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

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Certificate No.: **IECEx SEV 19.0022**

Date of issue: 2022-01-27

Issue No: 1

Manufacturer: **Hans Turck GmbH**
Witzlebenstraße 7
45472 Mülheim an der Ruhr
Germany

Additional 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 Edition:7.0	Explosive atmospheres - Part 0: Equipment - General requirements
IEC 60079-11:2011 Edition:6.0	Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"
IEC 60079-26:2014-10 Edition:3.0	Explosive atmospheres – Part 26: Equipment with Equipment Protection Level (EPL) Ga

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/ExTR19.0023/01

Quality Assessment Report:

CH/SEV/QAR12.0006/06

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EQUIPMENT:
Equipment and systems covered by this Certificate are as follows:

Pressure Measuring Transducer

Type PT * - 15** – IX - *

The Pressure Measurement Transducer (PMT) is used for industry applications for the measurement of pressure from – 0.3 to +1 bar relative.

Typical applications are machine building, energy management, water supply, chemistry, pharmacy, HVAC.

The measured medium can conform to category 1 G (zone 0). The PMT can fulfil the task of zone separation 1/2 G.

The pressure measurement transducer is based on the following main components:
- Process connection in stainless steel
- Case in stainless steel
- Pressure measuring cell in ceramic
- Electronic circuit board in FR4-material / sensor-PCB and EMC-PCB
- Electrical plug connector resp. cable in plastic

Pressure range: -300 … 0 mbar / 0 … +50 to 0 … +1000 mbar relative
Process connections: (outside = outside thread; inside = inside thread)
G1/2“ outside, G1/4“ inside, G1/4“ outside, G1/8“ outside, 1/4“-18 NPT outside, R1/4“outside

Further process connection differing to the above mentioned thread diameters in the same material according to ATEX regulations are possible.

Electrical connection:
M12x1, DIN EN 175301-803-A, DIN EN 175301-803-C, cable quick connector, cable quick connector with cable.

The power for the pressure transducer has to be supplied over a certified intrinsically safe circuit „ia“.

Rating: Ui = 30 V; Ii = 100 mA; Pi = 750 mW; Ci = 2 nF; Li = 8 µH

Classification of installation and use:	stationary
Ingress protection:	IP65 respective IP67
Rated ambient temperature range (°C):	-25 °C ≤ Tamb ≤ +85 °C

Type key:

Explanation	Example
PT * - 15** – IX - *	
* = Pressure range	e.g. 0.05R means 0 to 0.05 bar or 5PSIV means -5 to 5 psi
15** = Kind of sealing	e.g. 1504 = External Thread - G1/4", back close DIN 3852 Form E with profile-seal FPM acc. DIN 3869
IX = ATEX version	Output Signal and Supply Voltage
* = Electrical Connection	e.g. 1143 means Connector M12 x 1 – standard

SPECIFIC CONDITIONS OF USE: NO

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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)
Parts lists of the electronic components in drawings 306561 and 306566 have been revised

This CoC repaces IECEx SEV 19.0022 Issue 0