



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 EPS 14.0101X**

Page 1 of 4

Certificate history:

Status: **Current**

Issue No: 2

Issue 1 (2016-06-30)

Issue 0 (2015-09-30)

Date of Issue: **2023-06-29**

Applicant: **pi safety components GmbH & Co. KG**

Muehlenweg 2

Teuschnitz 96358

Germany

Equipment: **Transmitter TR.Ex**

Optional accessory:

Type of Protection: **eb mb ib [Ia] tb**

Marking: **Ex eb mb ib [Ia Ga] IIC T4 Gb**

Ex tb [Ia Da] IIIC T130°C Db

Approved for issue on behalf of the IECEx
Certification Body:

Position:

Signature:
(for printed version)

Date:
(for printed version)

Ulrich Felke

Head of Certification



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:

Bureau Veritas Consumer Products Services Germany GmbH
Businesspark A96
86842 Türkheim
Germany





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Page 2 of 4

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Manufacturer: **pi safety components GmbH & Co. KG**
Muehlenweg 2
Teuschnitz 96358
Germany

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 60079-18:2017 Edition:4.1	Explosive atmospheres - Part 18: Protection by encapsulation "m"
IEC 60079-31:2013 Edition:2	Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t"
IEC 60079-7:2017 Edition:5.1	Explosive atmospheres - Part 7: Equipment protection by increased safety "e"

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:

DE/EPS/ExTR15.0051/02

Quality Assessment Report:

DE/EPS/QAR14.0005/10



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Certificate No.: **IECEX EPS 14.0101X**

Page 3 of 4

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EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

The transmitter TR.Ex is used for acquisition and analysis of different measurements, e.g. temperature, humidity and difference pressure. The integrated terminal box protected by kind of ignition protection Ex e provides a direct electrical connection in explosive areas.

Certified sensors can be connected to the intrinsically safe interface, e. g. sensors of type IY.Ex.

Electrical data supply:

24 V_{AC/DC} ± 20 %, 50...60 Hz

U_m = 30 V

Electrical data sensor interface:

U_o = 5 V, I_o = 1.055 A, P_o = 492 mW

C_o = 3.7 µF, L_o = 0.091 mH

Ambient temperature range:

-40 °C ≤ T_a ≤ +70 °C

SPECIFIC CONDITIONS OF USE: YES as shown below:

The transmitter TR.Ex shall be protected from excessive UV light exposure.

The transmitter TR.Ex shall be protected from mechanical impact.

The enclosure of the transmitter TR.Ex shall never be opened while circuits are alive.



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Page 4 of 4

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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)

- Sensors IY.Ex removed from this ExTR/certification, as they are certified separately
- Update of standards
- Change of manufacturer name
- Alignment of intrinsically safe parameters