



**BUREAU
VERITAS**



EU - Type Examination Certificate

- (1) **EU - Type Examination Certificate**
- (2) Equipment and protective systems intended for use in potentially explosive atmospheres – Directive 2014/34/EU
- (3) EU - Type Examination Certificate Number
- EPS 14 ATEX 1 789 X**
- Revision 2**
- (4) Equipment: Transmitter TR.Ex
- (5) Manufacturer: pi safety components GmbH & Co. KG
- (6) Address: Muehlenweg 2
96358 Teuschnitz
Germany
- (7) This equipment and any acceptable variation thereto are specified in the annex to this certificate and the documentation therein referred to.
- (8) Bureau Veritas Consumer Products Services Germany GmbH, notified body No. 2004 in accordance with Article 21 given in the Directive 2014/34/EU of the European Parliament and of the Council of 26 February 2014, certifies that this equipment has been found to comply with the essential health and safety requirements relating to the design and construction of equipment and protective systems intended for use in potentially explosive atmospheres, given in Annex II of the Directive. The examination and test results are recorded in the confidential documentation under the reference number 15TH0087.
- (9) Compliance with the essential health and safety requirements has been assured by compliance with:

EN IEC 60079-0:2018

**EN 60079-7:2015,
EN IEC 60079-7:2015/A1:2018**

EN 60079-11:2012

**EN 60079-18:2015,
EN 60079-18:2015/A1:2017**

EN 60079-31:2014

- (10) If the sign "X" is placed after the certificate number, it indicates that the equipment is subject to special conditions for safe use specified in the annex to this certificate.
- (11) This EU - Type Examination Certificate relates only to the design and construction of the specified equipment in accordance with Directive 2014/34/EU. Further requirements of this Directive apply to the manufacture of this equipment and its placing on the market. Those requirements are not covered by this certificate.
- (12) The marking of the equipment shall include the following:

II 2(1)G Ex eb mb ib [Ia Ga] IIC T4 Gb

II 2(1)D Ex tb [Ia Da] IIIC T130°C Db

Certification department of explosion protection

Tuerkheim, 2023-06-29



Certificates without signature and seal are void. This certificate is allowed to be distributed only if not modified. Extracts or modifications must be authorized by Bureau Veritas Consumer Products Services Germany GmbH.

(13)

Annex

(14) **EU - Type Examination Certificate EPS 14 ATEX 1 789 X**

Revision 2

(15) Description of equipment:

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: $24 V_{AC/DC} \pm 20 \%$, 50...60 Hz, $U_m = 30 V$
Electrical data sensor interface: $U_o = 5 V$, $I_o = 1.055 A$, $P_o = 492 mW$
 $C_o = 3.7 \mu F$, $L_o = 0.091 mH$

Ambient temperature range: $-40 \text{ }^\circ\text{C} \leq T_a \leq +70 \text{ }^\circ\text{C}$

(16) Reference number: 15TH0087

(17) Special conditions for safe use:

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.

(18) Essential health and safety requirements:

Met by compliance with standards.

Certification department of explosion protection

Tuerkheim, 2023-06-29

Ulrich Feike

