



# 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](http://www.iecex.com)

Certificate No.: **IECEX EPS 21.0068X** Page 1 of 4 [Certificate history:](#)  
Status: **Current** Issue No: 0  
Date of Issue: 2022-05-06  
Applicant: **Endress + Hauser Wetzler GmbH & Co. KG**  
Obere Wank 1  
87484 Nesselwang  
**Germany**  
Equipment: **Compact thermometer iTHERM TrustSens, types TM371 and TM372**  
Optional accessory:  
Type of Protection: **Intrinsic safety "i"**  
Marking: Ex ia IIC T6...T1 Ga/Gb  
Ex ia IIC T85°C...T450°C Da/Db

Approved for issue on behalf of the IECEx  
Certification Body:

Position:

Signature:  
(for printed version)

Date:  
(for printed version)

Ulrich Feike

Certification Manager

2022-05-06



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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](http://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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Manufacturer: **Endress + Hauser Wetzer GmbH & Co. KG**  
Obere Wank 1  
87484 Nesselwang  
**Germany**

Manufacturing locations: **Endress + Hauser Wetzer GmbH & Co. KG** **Endress+Hauser Wetzer (Suzhou) Co. Ltd.** **Endress+Hauser Wetzer USA INC.**  
Obere Wank 1 Su-Hong-Zhong-Lu No. 465 2413 Endress Place  
87484 Nesselwang 215021 Suzhou-SIP (P.R. China) Greenwood, IN 46143  
**Germany** **China** **United States of America**

## See following pages for more 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

IEC 60079-26:2021-02 Explosive atmospheres - Part 26: Equipment with Separation Elements or combined Levels of Protection  
Edition:4.0

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:

[DE/EPS/ExTR21.0072/00](#)

Quality Assessment Report:

[DE/TUN/QAR06.0009/09](#)



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## EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

The Compact thermometer iTHERM TrustSens, type TM371 or TM372 is a self-calibrating thermometer with analogue output 4 to 20 mA with HART® protocol communication.

Electrical parameters:

U<sub>i</sub> = 30 V DC

I<sub>i</sub> = 100 mA

P<sub>i</sub> = 750 mW

P<sub>i</sub> = 600 mW for dust applications

## SPECIFIC CONDITIONS OF USE: YES as shown below:

From the safety point of view, the thermometer shall be considered to be connected to earth (for details the instruction manual provided with the equipment shall be observed).

It is not permitted to use the configuration pins 2 and 4 when the thermometer is connected to electrical supply.

Electrostatic charge on the M12 connector shall be avoided in dust explosive atmospheres during operation and maintenance.

The temperature class is dependent on the ambient temperature and the process temperature:

Temperature class / Maximum surface temperature	Ambient temperature range housing T <sub>a</sub>	Process temperature range T <sub>p</sub>
T6 / T85°C	-40 °C ≤ T <sub>a</sub> ≤ +55 °C	-50 °C ≤ T <sub>p</sub> ≤ +75 °C
T5 / T100°C	-40 °C ≤ T <sub>a</sub> ≤ +70 °C	-50 °C ≤ T <sub>p</sub> ≤ +90 °C
T4 / T135°C	-40 °C ≤ T <sub>a</sub> ≤ +85 °C	-50 °C ≤ T <sub>p</sub> ≤ +125 °C
T3 / T200°C	-40 °C ≤ T <sub>a</sub> ≤ +85 °C	-50 °C ≤ T <sub>p</sub> ≤ +190 °C
T2 / T300°C	-40 °C ≤ T <sub>a</sub> ≤ +85 °C	-50 °C ≤ T <sub>p</sub> ≤ +285 °C
T1 / T450°C	-40 °C ≤ T <sub>a</sub> ≤ +85 °C	-50 °C ≤ T <sub>p</sub> ≤ +435 °C



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Additional manufacturing locations:

**Endress+Hauser Wetzler (India) Pvt. Ltd.**  
M-171/173, MIDC, Waluj  
Aurangabad – 431 136  
**India**