

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 22.0027X

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Certificate history:

Status:

Current

Issue No: 2

Issue 1 (2023-01-29) Issue 0 (2022-11-08)

Date of Issue:

2023-05-05

Applicant:

Endress+Hauser Wetzer GmbH + Co. KG

Obere Wank 1 87484 Nesselwang

Germany

Equipment:

Temperature transmitter iTEMP, type TMT86

Optional accessory:

Optional accessories include a display or field enclosure.

Type of Protection:

Intrinsic safety "i"

Marking:

Ex ia IIC T6...T4 Ga Ex ia IIC T6...T4 Gb Ex ia [ia Ga] IIC T6...T4 Gb

Approved for issue on behalf of the IECEx Certification Body:

Position:

Signature:

(for printed version)

Date:

(for printed version)

Head of Certification

2023-05-05

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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Manufacturer:

Endress+Hauser Wetzer GmbH + Co. KG

Obere Wank 1 87484 Nesselwang

Germany

Manufacturing locations:

Endress+Hauser Wetzer GmbH +

Co. KG

Obere Wank 1 87484 Nesselwang

Germany

Endress+Hauser Sicestherm S.r.L

Via Martin Luther King 7

20060 Pessano con Bornago (MI)

Italy

Endress+Hauser Wetzer (Suzhou)

Co. Ltd.

Jiang-Tian-Li-lu No.31, 215021 Suzhou-SIP (P.R. China)

China

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

Explosive atmospheres - Part 47: Equipment protection by 2-wire intrinsically safe Ethernet concept (2-WISE)

60079-47:2021 Edition:1.0

> 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/ExTR22.0030/02

Quality Assessment Report:

DE/TUN/QAR06.0009/11



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EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

The temperature transmitter iTEMP, type TMT86, is a two-wire transmitter with Ethernet interface. It has measuring input circuits for resistance thermometers (RTD) in 2-, 3- or 4-wire connection, thermocouples and voltage transmitters. The transmitter can optionally be equipped with a field housing or display.

Electrical data:

2-WISE power load

Ui = 17.5 V DC Ii = 380 mA

Ci, Li negligible

Respectively as a field device appropriate for connection to a field bus system according to the FISCO model.

Uo = 3.71 V DC Io = 5.24 mA Po = 4.86 mW

Ex ia IIC: Lo = 50 mH, Co = $4 \mu F$ Ex ia IIB: Lo = 100 mH, Co = $24 \mu F$

Ex ia IIA: Lo = 100 mH, Co = $64 \mu F$

SPECIFIC CONDITIONS OF USE: YES as shown below:

In hazardous areas it is not permitted to use the CDI interface of TMT86 for configuration.

The head transmitter must be protected against electrostatic charge/discharge.

Ambient temperature range:

Type (order option)	Temperature class	Ambient temperature zone 1	Ambient temperature zone (
TMT86-xxx1xxxx Head transmitter without display	T6	-52 °C ≤ Ta ≤ +55 °C	-52 °C ≤ Ta ≤ +40 °C
	T5	-52 °C ≤ Ta ≤ +70 °C	-52 °C ≤ Ta ≤ +60 °C
	T4	-52 °C ≤ Ta ≤ +85 °C	-52 °C ≤ Ta ≤ +60 °C
TMT86-xxx1xxxx Head transmitter with display (TID10)	T6	-40 °C ≤ Ta ≤ +55 °C	-
	T5	-40 °C ≤ Ta ≤ +70 °C	-
	T4	-40 °C ≤ Ta ≤ +85 °C	-
TMT86-xxx1xxxx Field housing without display	T6	-52 °C ≤ Ta ≤ +55 °C	-
	T5	-52 °C ≤ Ta ≤ +70 °C	-
	T4	-52 °C ≤ Ta ≤ +85 °C	-
TMT86-xxx1xxxx Field housing with display (TID10)	T6	-40 °C ≤ Ta ≤ +55 °C	-
	T5	-40 °C ≤ Ta ≤ +70 °C	-
	T4	-40 °C ≤ Ta ≤ +85 °C	-



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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above) Added assessment according to IEC TS 60079-47.



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Additional manufacturing locations:

Endress+Hauser Wetzer USA INC 2413 Endress Place Greenwood, IN 46143 United States of America Endress+Hauser Wetzer (India) Pvt. Ltd. M-171/173, MIDC, Waluj Aurangabad – 431 136

India