



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 KEM 06.0020X	Page 1 of 5	<u>Certificate history:</u>
Status:	Current	Issue No: 6	Issue 5 (2020-06-22)
Date of Issue:	2024-07-19		Issue 4 (2020-01-31)
Applicant:	Endress+Hauser Wetzler GmbH+Co. KG Obere Wank 1 87484 Nesselwang Germany		Issue 3 (2017-06-21)
Equipment:	Temperature transmitter, Type iTemp TMT142 and Type iTemp TMT162		Issue 2 (2013-02-04)
Optional accessory:	-		Issue 1 (2009-10-26)
Type of Protection:	Ex db; Ex tb		Issue 0 (2006-07-04)
Marking:	Ex db IIC T6...T4 Gb Ex tb IIIC T110 °C Db		

Approved for issue on behalf of the IECEx
Certification Body:

L.G. van Schie

Position:

Certification Manager

Signature:
(for printed version)

Date:
(for printed version)

2024-07-19

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2. This certificate is not transferable and remains the property of the issuing body.
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Certificate issued by:

DEKRA Certification B.V.
Meander 1051
6825 MJ Arnhem
Netherlands





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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, 7/9
I-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 60079-1:2014](#) Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
Edition:7.0

[IEC 60079-31:2013](#) Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t"
Edition:2

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:

[NL/KEM/ExTR09.0074/05](#)

Quality Assessment Report:

[DE/TUN/QAR06.0009/12](#)



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EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

Description

The Temperature Transmitter, Type iTemp TMT142 and Type iTemp TMT162 consists of an enclosure, made of aluminium or stainless steel, containing electronics circuits, terminals and optionally a display. The transmitters are used to convert the measurement signal of an external temperature sensor into an output signal.

Depending on the version, the transmitter provides a 4 - 20 mA current output signal with HART communication or is connected to a Profibus PA or Foundation Fieldbus.

The ambient temperature range, depending on transmitter version and temperature class or temperature code, is listed in the following table:

Transmitter version	Temperature class Temperature code	Ambient temperature range
in type of protection flameproof enclosures Ex db IIC	T6	-40 °C to +55 °C
	T5	-40 °C to +70 °C
	T4	-40 °C to +80 °C
in type of protection dust ignition protection by enclosure Ex tb IIIC	T110 °C	-40 °C to +80 °C

The enclosure of the transmitter provides a degree of protection IP66/IP67 in accordance with IEC 60529.

Electrical data

Unit	TMT162- TMT142-	TMT162-	TMT162- TMT142-	TMT142B-
Communication	HART 5	HART 7	FF/PA	HART 7
Voltage	8...40 Vdc	11.5...40 Vdc	9...35 Vdc	11...36 Vdc
Output signal	4-20 mA	4-20 mA	FF/PA	4-20 mA
Current consumption	23 mA	23 mA	11 mA	23 mA
Power dissipation	Maximum 3 W	1W	Maximum 3 W	1W

Nomenclature

See Annex 1 to NL/KEM/09.0074/05.

SPECIFIC CONDITIONS OF USE: YES as shown below:

- The flameproof joints are not intended to be repaired.
- When the optional non-conductive coating is applied the risk from electrostatic discharge shall be minimized.



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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)

- Minor change of nomenclature.
- Adding type of protection dust for 010 (E and R) of the type TMT162.
- Minor constructional changes.



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Additional manufacturing locations:

Endress+Hauser Wetzer (India) Pvt. Ltd.
M171/173, MIDC, Waluj
Aurangabad - 431 136
India

Endress+Hauser Wetzer USA INC
2375 Endress Place
Greenwood IN 46143
United States of America

Annex:

[228967800-ExTR09.0074.05-Annex 1.pdf](#)