

CERTIFICATE

(1) EU-Type Examination

(2) **Equipment or protective systems intended for use in potentially explosive atmospheres - Directive 2014/34/EU**

(3) EU-Type Examination Certificate Number: **KEMA 02ATEX2338X** Issue Number: **9**

(4) Product: **Temperature Transmitter, Type iTEMP TMT142 and Type iTEMP TMT162**

(5) Manufacturer: **Endress+Hauser Wetzer GmbH+Co. KG**

(6) Address: **Obere Wank 1, 87484 Nesselwang, Germany**

(7) This product and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.

(8) DEKRA Certification B.V., Notified Body number 0344 in accordance with Article 17 of Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014, certifies that this product has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of products intended for use in potentially explosive atmospheres given in Annex II to the Directive.

The examination and test results are recorded in confidential test report number NL/KEM/ExTR09.0074/05.

(9) Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

EN IEC 60079-0 : 2018

EN 60079-1 : 2014

EN 60079-31 : 2014

except in respect of those requirements listed at item 18 of the Schedule.

(10) If the sign "X" is placed after the certificate number, it indicates that the product is subject to the Specific Conditions of Use specified in the schedule to this certificate.

(11) This EU-Type Examination Certificate relates only to the design and construction of the specified product. Further requirements of the Directive apply to the manufacturing process and supply of this product. These are not covered by this certificate.

(12) The marking of the product shall include the following:



II 2 G Ex db IIC T6...T4 Gb
II 2 D Ex tb IIIC T110 °C Db

Date of certification: 19 July 2024

DEKRA Certification B.V.

L.G. van Schie
Certification Manager



Throughout this document, a point is used as the decimal separator.

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(13) **SCHEDULE**

(14) **to EU-Type Examination Certificate KEMA 02ATEX2338X** Issue No. **9**

(15) **Description**

The Temperature Transmitters, Type iTEMP TMT142 and Type iTEMP TMT162 consist 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 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 EN 60529.

Nomenclature

See Annex 1 to Report No. NL/KEM/ExTR09.0074/05.

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	1 W	Maximum 3 W	1 W

Installation instructions

The instructions provided with the product shall be followed in detail to assure safe operation.

(16) **Report Number**

NL/KEM/ExTR09.0074/05.

(17) **Specific conditions of use**

- 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.

(13) **SCHEDULE**

(14) **to EU-Type Examination Certificate KEMA 02ATEX2338X** Issue No. **9**

(18) **Essential Health and Safety Requirements**

Covered by the standards listed at item (9).

(19) **Test documentation**

As listed in Report No. NL/KEM/ExTR09.0074/05.