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: **DEKRA 12ATEX0084 X** Issue Number: **2**

(4) Product: **Resistance-Thermometer Omnigrad, Types TR10, TR11, TR12 and TR13 and Thermocouple-Thermometer Omnigrad, Types TC10, TC12, and TC13**

(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/DEK/ExTR12.0017/01.

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

EN IEC 60079-0 : 2018 **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 1/2 D Ex ta/tb IIIC T85 °C...T450 °C Da/Db

Date of certification: 20 October 2021

DEKRA Certification B.V.

L.G. van Schie
Certification Manager

PRODUCTS RvA C 001

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(13) # SCHEDULE

(14) **to EU-Type Examination Certificate DEKRA 12ATEX0084 X** Issue No. **2**

(15) **Description**

The Resistance-Thermometer Omnigrad, Types TR10, TR11, TR12 and TR13 and Thermocouple-Thermometer Omnigrad, Types TC10, TC12 and TC13 consists of a certified enclosure type TA30A or TA30D, containing terminals or a transmitter (type TMT...) and a direct connected temperature sensor in a thermowell. The enclosure can be provided with a blind or windowed cover.

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

Assembled head transmitter	Temperature code	Ambient temperature range	Process temperature range
TMT18x and TMT8x (with or without display module)	T85 °C	-40 °C to +65 °C	-50 °C to +70 °C
	T100 °C	-40 °C to +80 °C	-50 °C to +80 °C
	T135 °C	-40 °C to +85 °C	-50 °C to +120 °C
Without transmitter	T85 °C	-50 °C to +70 °C	-50 °C to +70 °C
	T100 °C	-50 °C to +80 °C	-50 °C to +80 °C
	T135 °C	-50 °C to +120 °C	-50 °C to +120 °C
	T200 °C	-50 °C to +120 °C	-50 °C to +185 °C
	T300 °C	-50 °C to +120 °C	-50 °C to +285 °C
	T450 °C	-50 °C to +120 °C	-50 °C to +435 °C

The enclosure provides a degree of protection IP66/IP67 in accordance with EN 60529.

Electrical data

Supply and output circuit: max. 42 Vdc, 23 mA (TMT82)
max. 35 Vdc, 12 mA (TMT84/TMT85)
max. 35 Vdc, 23 mA (TMT180/TMT181/TMT182)
Sensor: max. 10 Vdc, 1 mA

Installation instructions

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

(16) **Report Number**

No. NL/DEK/ExTR12.0017/01.

(17) **Specific conditions of use**

For temperature code and ambient temperature range see (15).

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

Covered by the standards listed at item (9).

(13) # SCHEDULE

(14) **to EU-Type Examination Certificate DEKRA 12ATEX0084 X** Issue No. **2**

(19) **Test documentation**

As listed in Report No. NL/DEK/ExTR12.0017/01.

(20) **Certificate history**

Issue 0	-	215251300	initial certificate
Issue 1	-	225621800	assessed per EN IEC 60079-0 : 2018 and EN 60079-31 : 2014 minor editorial changes in documentation