UK Type Examination Certificate CML 21UKEX11006X Issue 0

United Kingdom Conformity Assessment

1 Product or Protective System Intended for use in Potentially Explosive Atmospheres UKSI 2016:1107 (as amended) – Schedule 3A, Part 1

2 Equipment **Temperature Transmitter,**
Type iTEMP TMT142 and Type iTEMP TMT162

3 Manufacturer **Endress+Hauser Wetzer GmbH+Co. KG**

4 Address **Obere Wank 1,87484 Nesselwang, Germany**

5 The equipment is specified in the description of this certificate and the documents to which it refers.

6 Eurofins E&E CML Limited, Newport Business Park, New Port Road, Ellesmere Port, CH65 4LZ, United Kingdom, Approved Body Number 2503, in accordance with Regulation 43 of the Equipment and Protective Systems Intended for Use in Potentially Explosive Atmospheres Regulations 2016, UKSI 2016:1107 (as amended), certifies that this equipment has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment intended for use in potentially explosive atmospheres given in Schedule 1 of the Regulations.

The examination and test results are recorded in the confidential reports listed in Section 12.

7 If an 'X' suffix appears after the certificate number, it indicates that the equipment is subject to specific conditions of use (affecting correct installation or safe use). These are specified in Section 14.

8 This UK Type Examination certificate relates only to the design and construction of the specified equipment. Further requirements of the Regulations apply to the manufacturing process and supply of the product. These are not covered by this certificate.

9 Compliance with the Essential Health and Safety Requirements, with the exception of those listed in the confidential report, has been demonstrated through compliance with the following documents:

EN IEC 60079-0:2018 EN 60079-1:2014 EN 60079-31:2014

10 The equipment shall be marked with the following:

Refer to attached certificate KEMA 02ATEX2338X, Issue 8 for specific marking of explosion protection symbols.

Refer to attached certificate KEMA 02ATEX2338X, Issue 8 for marked code and ambient temperature range.

Ben Trafford
Certification Officer

11 Description

For product description refer to attached certificate KEMA 02ATEX2338X, Issue 8.

12 Certificate history and evaluation reports

Issue	Date	Associated report	Notes
0	12 Nov 2021	R14537N/00	Issue of the prime certificate. KEMA 02ATEX2338X, Issue 8 is attached and shall be referred to in conjunction with this certificate.

Note: Drawings that describe the equipment are listed or referred to in the Annex.

13 Conditions of Manufacture

For conditions of manufacture, refer to attached certificate KEMA 02ATEX2338X, Issue 8. Any routine tests/verifications required by the ATEX certification shall be conducted.

14 Specific Conditions of Use

For specific conditions of use, refer to attached certificate KEMA 02ATEX2338X, Issue 8.

Certificate Annex

Certificate Number	**CML 21UKEX11006X**
Equipment	**Temperature Transmitter, Type iTEMP TMT142 and Type iTEMP TMT162**
Manufacturer	**Endress+Hauser Wetzer GmbH+Co. KG**

The following documents describe the equipment defined in this certificate:

Issue 0

For drawings describing the equipment, refer to attached certificate KEMA 02ATEX2338X. In addition to the drawings listed on KEMA 02ATEX2338X, the following drawings include the additional marking required for this UK Type Examination certification:

Drawing No	Sheets	Rev	Approved date	Title
10000012798	1 to 2	-	12 Nov 2021	Nameplate UKCA Transmitter units for Category 1 or 2

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 02ATEX2338 X** Issue Number: **8**

(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/ExTR09.0074/04.

(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**

(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: 22 June 2020

DEKRA Certification B.V.

R. Schuller
Certification Manager

DEKRA Certification B.V. Meander 1051, 6825 MJ Arnhem P.O. Box 5185, 6802 ED Arnhem The Netherlands
T +31 88 96 83000 F +31 88 96 83100 www.dekra-product-safety.com Registered Arnhem 09085396

(13) # SCHEDULE

(14) **to EU-Type Examination Certificate KEMA 02ATEX2338 X** Issue No. **8**

(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.

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

Nomenclature

See Annex 1 to Report No. NL/KEM/ExTR09.0074/04.

Installation instructions

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

(16) **Report Number**

No. NL/KEM/ExTR09.0074/04.

(13) # SCHEDULE

(14) **to EU-Type Examination Certificate KEMA 02ATEX2338 X** Issue No. **8**

(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.

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

Covered by the standards listed at item (9).

(19) **Test documentation**

As listed in Report No. No. NL/KEM/ExTR09.0074/04.

(20) **Certificate history**

Issue 1	200683500	Initial issue for Type iTemp TMT162 flameproof and dust.
Amend. 1	201823200	Intrinsically safe types introduced.
Amend. 2	202917500	Ambient temperature ranges changed.
Amend. 3	203147200	Stainless steel types introduced.
Amend. 4	207756500	Type iTemp TMT142 introduced.
Issue 2	208671600	Intrinsically safe fieldbus and alternative enclosure (T17) introduced.
Issue 3	212381700	Minor constructional changes applied.
Issue 4	213124400	Ambient temperature range changed, depending on transmitter version/temperature class.
Issue 5	214657800	Assessment per latest editions of the standards. Minor constructional changes applied.
Issue 6	219410100	Assessment per latest editions of the standards. Type of protection Ex ia moved to DEKRA 17ATEX0048X. Minor constructional changes applied.
Issue 7	224124400	Assessment per EN IEC 60079-0:2018. Minor constructional changes applied
Issue 8	223762800	Minor constructional changes applied