

**UK Type Examination Certificate    CML 21UKEX11240X    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 Assemblies Omnigrad S,  
Type Tx61, Tx62, Tx63, Tx65 and Tx66**
- 3    Manufacturer    **Endress+Hauser Wetzler 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 60079-26:2015  
  
EN 60079-31:2014
- 10   The equipment shall be marked with the following:



Refer to attached certificate KEMA 09ATEX0091 X, Issue 5 for specific marking of explosion protection symbols.

Refer to attached certificate KEMA 09ATEX0091 X, Issue 5 for marked code and ambient temperature range.



**CML 21UKEX11240X**  
**Issue 0**

## **11 Description**

For product description refer to attached certificate KEMA 09ATEX0091 X, Issue 5

## **12 Certificate history and evaluation reports**

<b>Issue</b>	<b>Date</b>	<b>Associated report</b>	<b>Notes</b>
0	02 Nov 2021	R14537U/00	Issue of the prime certificate. KEMA 09ATEX0091 X, Issue 5 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 09ATEX0091 X, Issue 5. 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 09ATEX0091 X, Issue 5.

## Certificate Annex

**Certificate Number** CML 21UKEX11240X  
**Equipment** Temperature Assemblies Omnigrad S,  
Type Tx61, Tx62, Tx63, Tx65 and Tx66  
**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 09ATEX0091 X. In addition to the drawings listed on KEMA 09ATEX0091 X, the following drawings include the additional marking required for this UK Type Examination certification:

Drawing No	Sheets	Rev	Approved date	Title
10000012837	1 to 2	-	02 Nov 2021	Nameplate UKCA Temperature units for Category 1 or 2



# CERTIFICATE

## EU-Type Examination

- (1)
- (2) **Equipment or protective systems intended for use in potentially explosive atmospheres - Directive 2014/34/EU**
- (3) EU-Type Examination Certificate Number: **KEMA 09ATEX0091 X** Issue Number: **5**
- (4) Product: **Temperature Assemblies Omnigrad S, Type Tx61, Tx62, Tx63, Tx65 and Tx66**
- (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/ExTR09.0011/04.
- (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 60079-26 : 2015**                      **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...T1 Gb**  
**II 2 D Ex tb IIIC T85 °C...T450 °C Db**  
**II 1/2 G Ex db IIC T6...T1 Ga/Gb**  
**II 1/2 D Ex ta/tb IIIC T85 °C...T450 °C Da/Db**

Refer to NL/KEM/ExTR09.0011/04 Annex 1 for details.

Date of certification: 12 July 2021

DEKRA Certification B.V.

L.G. van Schie  
Certification Manager



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(13) **SCHEDULE**

(14) **to EU-Type Examination Certificate KEMA 09ATEX0091 X**

Issue No. 5

(15) **Description**

Temperature Assemblies Omnigrad S, Types Tx61, Tx62, Tx63, Tx65 and Tx66 consist of a connection head and a sensing part.

The connection head, type TA30H certified per KEMA 08ATEX0145 U is provided with either a blind or windowed cover and may be provided with terminals or a transmitter.

The sensing part consists of a sensor insert and is optionally provided with process fitting parts such as a stainless steel Cortem RBFF1NS connection fitting certified per CESA 99 ATEX 034 U and a thermowell.

The sensor insert is a thermocouple or RTD enclosed by a mineral (MgO) insulated metal sheathed cable, in various diameters and length, provided with flying leads.

At Temperature Assemblies Omnigrad S, Types Tx61-N, Tx61-M, Tx63-N, Tx63-M, Tx66-N and Tx66-M the thermowell provides the separation between the areas requiring EPL Gb and Db (ambient) and EPL Ga and Da (process).

For details about type designation, thermal data, electrical data and marking refer to NL/KEM/ExTR09.0011/04 Annex 1 for details.

**Installation instructions**

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

(16) **Report Number**

No. NL/KEM/ExTR09.0011/04.

(17) **Specific conditions of use**

- The flameproof joints are not intended to be repaired.
- The temperature sensors with diameters smaller than 6 mm shall be protected by a thermowell.
- It shall be verified, taking into account the worst case process and ambient temperatures,
  - o that the temperature of the enclosure at the process connection point does not exceed the ambient temperature range of the assembly.
  - o that the temperature of optionally used RBFF1NS union does not exceed the service temperature range as listed in NL/KEM/ExTR09.0011/04 Annex 1.

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

Covered by the standards listed at item (9).

(19) **Test documentation**

As listed in Report No. NL/KEM/ExTR09.0011/04.

(13) **SCHEDULE**

(14) **to EU-Type Examination Certificate KEMA 09ATEX0091 X**

**Issue No. 5**

(20) **Certificate history**

Issue 1 - 212174100 initial certificate  
Issue 2 - 213991700 Assessment per EN 60079-0 : 2009 and EN 60079-31 : 2009.  
The mechanical and electrical construction are changed.  
Extension with T3/T200 °C... T1/T450 °C.  
Extension with insert Type TS101  
Issue 3 - 217072600 Changed condition of certification to the conditions of the initial release.  
Added flying leads to the Head Transmitter, option "F".  
Added a sealable enclosure, option "O".  
Issue 4 - 221791700 Assessed per standards as listed above.  
Addition of TA30H stainless steel enclosure. Addition of Type Tx65's  
option of Skin fitting type (suffix code "d" with Code "Y").  
Change of ambient temperature range and process temperature range.  
Issue 5 - 224795600 Assessed per EN IEC 60079-0 : 2018  
Change of mechanical construction.