



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 09.0033X	Page 1 of 4	<u>Certificate history:</u>
Status:	Current	Issue No: 5	Issue 4 (2020-07-03)
Date of Issue:	2021-07-16		Issue 3 (2015-10-20)
Applicant:	Endress+Hauser Wetzer GmbH+Co. KG Obere Wank 1 87484 Nesselwang Germany		Issue 2 (2012-02-13)
Equipment:	Temperature Assemblies Omnigrad S, Type Tx61, Tx62, Tx63, Tx65 and Tx66		
Optional accessory:			
Type of Protection:	Ex d and Ex t		
Marking:	Ex db IIC T6...T1 Gb Ex db IIC T6...T1 Ga/Gb Ex tb IIIC T85 °C...T450 °C Db Ex ta/tb IIIC T85 °C...T450 °C Da/Db For details see Annex 1 to NL/KEM/ExTR09.0011/03.		

Approved for issue on behalf of the IECEx
Certification Body:

L.G. van Schie

Position:

Certification Manager

Signature:
(for printed version)

Date:

2021-07-16

1. This certificate and schedule may only be reproduced in full.
2. This certificate is not transferable and remains the property of the issuing body.
3. The Status and authenticity of this certificate may be verified by visiting www.iecex.com or use of this QR Code.



Certificate issued by:

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





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Manufacturer: **Endress+Hauser Wetzler GmbH+Co. KG**
Obere Wank 1
87484 Nesselwang
Germany

Additional manufacturing locations: **Endress+Hauser Sicestherm S.r.L.**
Via Martin Luther King 7
20060 Pessano con Bornago (MI)
Italy

Endress+Hauser Wetzler (Suzhou) Co. Ltd.
Jiang-Tian-Li-lu No.31, 215021 Suzhou-SIP
(P.R. China)
China

Endress+Hauser Wetzler USA INC.
2413 Endress Place
Greenwood, IN 46143
United States of America

Endress+Hauser Wetzler (India) Pvt. Ltd.
M-171/173, MIDC, Waluj, Aurangabad - 431
136
India

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 60079-1:2014-06 Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
Edition:7.0

IEC 60079-26:2014-10 Explosive atmospheres – Part 26: Equipment with Equipment Protection Level (EPL) Ga
Edition:3.0

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 Reports:

[NL/DEK/ExTR18.0041/01](#)
[NL/KEM/ExTR08.0041/03](#)

[NL/DEK/ExTR18.0043/00](#)
[NL/KEM/ExTR09.0011/04](#)

[NL/DEK/ExTR18.0044/00](#)

Quality Assessment Report:

[DE/TUN/QAR06.0009/09](#)



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EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

The 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 IECEx KEM 08.0042U 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 IECEx CES 10.0002U 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 see Annex 1 to NL/KEM/ExTR09.0011/03.

SPECIFIC CONDITIONS OF USE: YES as shown below:

The flameproof joints are not intended to be repaired.

The temperature sensors with diameters smaller than 6 mm shall be mechanically protected by a thermowell.

It shall be verified, taking into account the worst case process and ambient temperatures, that the temperature of the:

- enclosure at the process connection point does not exceed the ambient temperature range of the assembly;
- optionally used RBFF1NS union does not exceed the service temperature range as listed in Annex 1 to NL/KEM/ExTR09.0011/03.



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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)

Assessment per IEC 60079-0:2017.

Change of mechanical construction.

Annex:

[224794800-ExTR09.0011.04-Annex1.pdf](#)