



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 10.0021X** Page 1 of 4 Certificate history:
Status: **Current** Issue No: 2 [Issue 1 \(2015-05-08\)](#)
[Issue 0 \(2010-05-25\)](#)
Date of Issue: 2021-11-17
Applicant: **Endress+Hauser Wetzler GmbH+Co. KG**
Obere Wank 1
87484 Nesselwang
Germany
Equipment: **Field Display, Type RID14-IA, Type RID14-ID, Type RID14-IF, and Type RID16-IA.**
Optional accessory:
Type of Protection: **Ex i, Ex db, Ex tb**
Marking: Ex ia IIC T6 ... T4 Gb (RID16-IA)
Ex ia IIC T6 ... T4 Ga (RID14-IA)
Ex db IIC T6 ... T4 Gb (RID14-ID)
Ex tb IIIC T110 °C Db (RID14-IF)

Approved for issue on behalf of the IECEx
Certification Body:

R. Schuller

Position:

Certification Manager

Signature:
(for printed version)

Date:

2021-11-17

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.
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Certificate issued by:

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





IECEX Certificate of Conformity

Certificate No.: **IECEX KEM 10.0021X**

Page 2 of 4

Date of issue: 2021-11-17

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

Additional manufacturing locations:

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
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Endress+Hauser Sicestherm S.r.l.
Via Martin Luther King 7/9
I-20060 Pessano con Bornago (MI)
Italy

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 60079-11:2011 Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"
Edition:6.0

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 Report:

[NL/KEM/ExTR10.0002/02](#)

Quality Assessment Report:

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



IECEX Certificate of Conformity

Certificate No.: **IECEX KEM 10.0021X**

Page 3 of 4

Date of issue: 2021-11-17

Issue No: 2

EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

General product information:

The digital Field Displays Type RID14 and Type RID16, connected to a fieldbus system (Profibus PA or Foundation Fieldbus), serve to display measured and calculated values and status information of devices connected to the fieldbus.

The equipment consists of an enclosure including the electronic circuits, a terminal board and a display. The enclosure material can be aluminium or stainless steel.

For more information see Annex 1 to NL/KEM/ExTR10.0002/02.

SPECIFIC CONDITIONS OF USE: YES as shown below:

When the enclosure is provided with a non-conductive coating, electrostatic charges on the equipment enclosure shall be avoided. For more details see safety instructions.

The flameproof joints are not intended to be repaired.

When the enclosure of the Field Display Type RID14-*A is made of aluminium, if it is mounted in an area where the use of EPL Ga apparatus is required, it must be installed such, that, even in the event of rare incidents, ignition sources due to impact and friction sparks are excluded.



IECEX Certificate of Conformity

Certificate No.: **IECEX KEM 10.0021X**

Page 4 of 4

Date of issue: 2021-11-17

Issue No: 2

DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)

- update to the latest standards
- X-conditions changed
- minor constructional changes

Annex:

[225648800-Annex1 to ExTR10.0002.02_1.pdf](#)

Thermal data

Ambient temperature range: -40 °C to +55 °C for T6
-40 °C to +70 °C for T5
-40 °C to +80 °C for T4 and T110 °C

Electrical data

For Field Displays in type of protection Ex tb and Ex db:
Supply/Fieldbus circuit (terminals + and -): $U_{\max} = 35 \text{ Vdc}$; $P_{\max} = 3 \text{ W}$

For Field Displays in type of protection Ex i:
supply/Fieldbus circuit (terminals +, - and -):
in type of protection intrinsic safety Ex ia IIC, only for connection to a certified intrinsically safe Fieldbus system according to the FISCO Model, in compliance with IEC 60079-11 Annex G, with the following maximum values:

$U_i = 17.5 \text{ V}$; $I_i = 500 \text{ mA}$; $P_i = 5.5 \text{ W}$; $C_i = 5 \text{ nF}$; $L_i = 10 \text{ }\mu\text{H}$;

or

in type of protection intrinsic safety Ex ia IIC, only for connection to a certified intrinsically safe circuit, with the following maximum values:

$U_i = 24 \text{ V}$; $I_i = 250 \text{ mA}$; $P_i = 1.2 \text{ W}$; $C_i = 5 \text{ nF}$; $L_i = 10 \text{ }\mu\text{H}$.

Type designation

Series No Suffix Code
 RID14-

Designation	Explanation	Value	Explanation
aa	Approval	BA	ATEX II1G Ex ia IIC T6 Ga
		BD	ATEX II2G Ex db IIC T6 Gb
		BF	ATEX II2G Ex tb IIIC Db
		IA	IECEX Ex ia IIC T6 Ga
		ID	IECEX Ex db IIC T6 Gb
		IF	IECEX Ex tb IIIC Db
b	Housing	3	Field, Alu die cast
		4	Field, 316L
		9	Combination of 3 or 4 + Non-conductive varnish
c	Cable Entry	B	NPT1/2 female thread
		C	M20 female thread
		D	G1/2 female thread (Excluded for option BD and ID)
d	Communication	/	Not relevant for Explosion Safety
ee	Accessory mounted	/	Not relevant for Explosion Safety
ff	Service	/	Not relevant for Explosion Safety
gg	Additional Approval	/	Not relevant for Explosion Safety
hh	Accessory enclosed	/	Not relevant for Explosion Safety
ii	Test, Certificate	/	Not relevant for Explosion Safety
jj	Marking	/	Not relevant for Explosion Safety

Series No Suffix Code
 RID16-

Designation	Explanation	Value	Explanation
aa	Approval	BA	ATEX II2G Ex ia IIC T6
		IA	IECEX Ex ia IIC T6 Gb
b	Housing	2	Alu
		9	Combination of 2 + Non-conductive varnish
c	Cable Entry	/	Not relevant for Explosion Safety
d	Communication	/	Not relevant for Explosion Safety
ee	Accessory mounted	/	Not relevant for Explosion Safety
ff	Service	/	Not relevant for Explosion Safety
gg	Additional Approval	/	Not relevant for Explosion Safety
hh	Accessory enclosed	/	Not relevant for Explosion Safety
ii	Test, Certificate	/	Not relevant for Explosion Safety
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