



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 10.0012X** Page 1 of 4 [Certificate history:](#)
Issue 0 (2010-05-26)

Status: **Current** Issue No: 1

Date of Issue: 2021-12-02

Applicant: **Endress+Hauser Wetzer GmbH+Co. KG**
Obere Wank 1
87484 Nesselwang
Germany

Equipment: **Field Display, Type RIA14 and Type RIA16**

Optional accessory:

Type of Protection: **Ex ib [ia]; Ex db; Ex tb**

Marking: Ex ib [ia Ga] IIC T6...T4 Gb (RIA14 & RIA16)
Ex db IIC T6...T4 Gb (RIA14)
Ex tb IIIC T110 °C Db (RIA14)

Approved for issue on behalf of the IECEx
Certification Body:

R. Schuller

Position:

Certification Manager

Signature:
(for printed version)

Date:

2021-12-02

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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 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

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/ExTR10.0013/01](#)

Quality Assessment Report:

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



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EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

General product information:

Field display Type RIA14 and Type RIA16 displays the value that is derived from the supply/input signal, and also provides an open collector output signal. The equipment consists of an enclosure including electronic circuits, a terminal board and a display.

For more information see Annex 1 to Report No. NL/KEM/ExTR10.0013/01.

SPECIFIC CONDITIONS OF USE: YES as shown below:

The flameproof joints are not intended to be repaired.

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.



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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)

- update to the latest standards,
- specific conditions of use added
- minor constructional changes

Annex:

[225648900-Annex1 to ExTR10.0013.01.pdf](#)

Thermal data

Ambient temperature range for type of protection Ex i:	-40 °C to +50 °C for T6, -40 °C to +60 °C for T5, -40 °C to +85 °C for T4.
Ambient temperature range for type of protection Ex db:	-40 °C to +55 °C for T6, -40 °C to +70 °C for T5, -40 °C to +80 °C for T4,
Ambient temperature range for type of protection Ex tb:	-40 °C to +80 °C for T110 °C.

Electrical data

For Field Displays in type of protection Ex tb and Ex db:
U max = 35 Vdc; P max = 3 W

For Field Displays in type of protection Ex-i:

Supply/input circuit (terminals +, - and 1):

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

$U_i = 30 \text{ V}$; $I_i = 100 \text{ mA}$; $P_i = 750 \text{ mW}$; $C_i = 15,2 \text{ nF}$; $L_i = 0 \text{ mH}$.

Open Collector output circuit (terminals 2 and 3)

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

$U_i = 30 \text{ V}$; $I_i = 100 \text{ mA}$; $P_i = 375 \text{ mW}$; $C_i = 0 \text{ nF}$; $L_i = 0 \text{ mH}$.

The intrinsically safe Supply/input circuit and the Open Collector output circuit are infallibly galvanically isolated from each other.

Type designation

Series No Suffix Code
RIA14- **aabcddeeffgghhijj**

Designation	Explanation	Value	Explanation
aa	Approval	BA	ATEX II2(1)G Ex ib [ia Ga] IIC T6 Gb
		BD	ATEX II2G Ex db IIC T6 Gb
		BF	ATEX II2G Ex tb IIIC Db
		IB	IECEX Ex ib [ia Ga] IIC T6 Gb
		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)
dd	Accessory Mounted	/	Not relevant for Explosion Safety
ee	Calibration	/	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
RIA16- **aabcddeeffgghhijj**

Designation	Explanation	Value	Explanation
aa	Approval	BA	ATEX II 2(1) G Ex ib [ia Ga] IIC T6 Gb
		IB	IECEX Ex ib [ia Ga] IIC T6 Gb
b	Housing	2	Alu
		9	Combination of 2 + Non-conductive varnish
c	Cable Entry	/	Not relevant for Explosion Safety
dd	Accessory Mounted	/	Not relevant for Explosion Safety
ee	Calibration	/	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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