



IECEX Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification Scheme for Explosive Atmospheres

for rules and details of the IECEx Scheme visit www.iecex.com

Certificate No.: IECEx KEM 10.0021 Issue No: 1 Certificate history:
Issue No. 1 (2015-05-08)
Status: Current Page 1 of 4 Issue No. 0 (2010-05-25)
Date of Issue: 2015-05-08
Applicant: **Endress + Hauser Wetzer GmbH + Co. KG**
Obere Wank 1
87484 Nesselwang
Germany
Electrical Apparatus: **Field Display, Type RID14-IA, Type RID14-ID, Type RID14-IF, and Type
RID16-IA.**
Optional accessory:
Type of Protection: **Ex I, Ex d, Ex tb**
Marking: Ex ia IIC T6 ... T4 Gb (RID16-IA)
Ex ia IIC T6 ... T4 Ga (RID14-IA)
Ex d IIC T6 ... T4 Gb (RID14-ID)
Ex tb IIIC T110 °C (RID14-IF)


Approved for issue on behalf of the IECEx
Certification Body:

M. Erdhuizen

Position:

Certification Manager

Signature:
(for printed version)



2015-05-08

Date:

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 the [Official IECEx Website](http://www.iecex.com).

Certificate issued by:

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





IECEX Certificate of Conformity

Certificate No: IECEx KEM 10.0021

Issue No: 1

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Page 2 of 4

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

Additional Manufacturing
location(s):

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 electrical apparatus 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 : 2011 Edition:6.0	Explosive atmospheres - Part 0: General requirements
IEC 60079-1 : 2003 Edition: 5	Electrical apparatus for explosive gas atmospheres - Part 1: Flameproof enclosure 'd'
IEC 60079-11 : 2011 Edition:6.0	Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"
IEC 60079-26 : 2006 Edition:2	Explosive atmospheres - Part 26: Equipment with equipment protection level (EPL) Ga
IEC 60079-31 : 2008 Edition:1	Explosive atmospheres – Part 31: Equipment dust ignition protection by enclosure 't'

*This Certificate **does not** indicate compliance with electrical 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/ExTR10.0002/00](#)

[NL/KEM/ExTR10.0002/01](#)

Quality Assessment Report:

[DE/TUN/QAR06.0009/04](#)



IECEX Certificate of Conformity

Certificate No: IECEX KEM 10.0021

Issue No: 1

Date of Issue: 2015-05-08

Page 3 of 4

Schedule

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.

Thermal and Electrical data:

Refer to "Annex 1 to CoC IECEX KEM 10.0021, Issue 01.pdf"

CONDITIONS OF CERTIFICATION: NO

When the digital Field Displays Type RID14 is applied in type of protection flameproof "d" or dust ignition protection by enclosure "tb", it shall be installed such that the glass window is mounted vertically.



IECEx Certificate of Conformity

Certificate No: IECEx KEM 10.0021

Issue No: 1

Date of Issue: 2015-05-08

Page 4 of 4

DETAILS OF CERTIFICATE CHANGES (for Issues 1 and above):

update of standards
X-conditions added, for vertical installation
constructional changes, not affecting the type of protection

Annex:

[Annex 1 to CoC IECEx KEM 10.0021 X, Issue 01.pdf](#)

Annex 1 to Certificate of Conformity IECEx KEM 10.0021 X, Issue 01

Description

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.

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

The maximum surface temperature of the enclosure T110 °C is based on a maximum ambient temperature of 80 °C.

Electrical data

For Field Displays in type of protection Ex tb and Ex d:
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:

$U_i = 24 \text{ V}$; $I_i = 250 \text{ mA}$; $P_i = 1,2 \text{ W}$; $C_i = 5 \text{ nF}$; $L_i = 10 \text{ }\mu\text{H}$.