



# 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](http://www.iecex.com)

Certificate No.:

IECEX BVS 17.0012

issue No.:0

Certificate history: \_\_\_\_\_

Status:

Current

Date of Issue:

2017-03-15

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Applicant:

**KOBOLD Messring GmbH**  
Nordring 22-24,  
65719 Hofheim/Ts  
Germany

Equipment:

**Plug-on display type AUF-2000**

Optional accessory:

Type of Protection:

**Equipment protection by intrinsic safety "i"**

Marking:

Ex ib IIC T4 Gb

Approved for issue on behalf of the IECEx  
Certification Body:

Dr Franz Eickhoff

Position:

Deputy Head of Certification Body

Signature:  
(for printed version)

Date:

2017-03-15

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 EXAM GmbH**  
Dinnendahlstrasse 9  
44809 Bochum  
Germany



On the safe side.



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Manufacturer: **KOBOLD Messring GmbH**  
Nordring 22-24,  
65719 Hofheim/Ts.  
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** Explosive atmospheres - Part 0: General requirements

Edition: 6.0

**IEC 60079-11 : 2011** Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"

Edition: 6.0

*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:

[DE/BVS/ExTR17.0019/00](#)

Quality Assessment Report:

[DE/BVS/QAR09.0001/07](#)



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## Schedule

### EQUIPMENT:

*Equipment and systems covered by this certificate are as follows:*

#### General product information:

The display device type AUF-2000 is used in intrinsically safe 4-20 mA circuits for the visualization of parameters. The display device type AUF-2000 is inserted between the plug and the socket of a compatible 4-20 mA device.

#### Type:

AUF-2000

#### Ratings:

See Annex

#### SPECIFIC CONDITIONS OF USE: NO



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**Annex**  
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## Ratings:

### 1. Electrical data

#### 1.1 I.S. circuit input connector (Pin 1 / 2 - plug)

Maximum input voltage	$U_i$	30	V
Maximum input current	$I_i$	100	mA
Maximum input power	$P_i$	1.1	W
Maximum internal capacitance	$C_i$	negligible	
Maximum internal inductance	$L_i$	negligible	

#### 1.2 I.S. circuit output connector (Pin 1 / 2 - socket)

Maximum output voltage	$U_o$	30	V
Maximum output current	$I_o$	100	mA
Maximum output power	$P_o$	1.1	W
Maximum external capacitance	$C_o$	depending on power supply	
Maximum external inductance	$L_o$	depending on power supply	

### 2. Thermal Parameters

Ambient temperature  $-20\text{ °C} \leq T_{\text{amb}} \leq 40\text{ °C}$