



# 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 IBE 13.0050X Issue No: 1 Certificate history:  
Issue No. 1 (2017-03-22)  
Status: **Current** Page 1 of 4 Issue No. 0 (2014-02-14)  
Date of Issue: **2017-03-22**  
Applicant: **KROHNE Pressure Solutions GmbH**  
Gewerbepark Meißen 14  
32423 Minden  
**Germany**  
Equipment: **Pressure Transmitter types OPTIBAR P 1010 C and OPTIBAR P 2010 C**  
*Optional accessory:*  
Type of Protection: **Intrinsic safety "Ia"**  
Marking: **Ex ia IIC T4 Ga**  
**Ex ia IIIC T85°C Da**

Approved for issue on behalf of the IECEx  
Certification Body:

Prof. Dr. Tammo Redeker

Position:

Head of Certification Body

Signature:  
(for printed version)

Date:

2017-03-22

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:

**IBExU Institut für Sicherheitstechnik GmbH**  
Certification Body  
Fuchsmühlenweg 7  
09599 Freiberg  
Germany





# IECEx Certificate of Conformity

Certificate No: IECEx IBE 13.0050X Issue No: 1

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Manufacturer: **KROHNE Pressure Solutions GmbH**  
Gewerbepark Meißen 14  
32423 Minden  
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:

<b>IEC 60079-0 : 2011</b> Edition:6.0	Explosive atmospheres - Part 0: General requirements
<b>IEC 60079-11 : 2011</b> Edition:6.0	Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"
<b>IEC 60079-26 : 2006</b> Edition:2	Explosive atmospheres - Part 26: Equipment with equipment protection level (EPL) Ga

*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/IBE/ExTR12.0025/00 DE/IBE/ExTR12.0025/01

### Quality Assessment Report:

DE/BVS/QAR13.0005/03



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## Schedule

### EQUIPMENT:

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

The Pressure transmitters OPTIBAR P 1010 C and OPTIBAR P 2010 C are different pressure measurement devices in stainless steel enclosure with different pressure ports. As measuring cell and evaluation electronic serves a separately approved electronic module. The devices are intended for use in potentially hazardous areas, where EPL Ga respective Da devices are required. They are supplied by an intrinsically safe power supply of the Category „ia“.  
See Attachment for detailed technical data.

### SPECIFIC CONDITIONS OF USE: YES as shown below:

The equipment designed with connector have to be installed in such a way that the degree of protection IP 20 is always kept.

The safety and assembly instructions contained in the operating instruction and the ambient temperature range  $-20\text{ °C} \leq T_a \leq +70\text{ °C}$  have to be taken into account.

The device may be operated in explosive atmospheres which requires equipment of EPL Ga only when there are atmospheric conditions (temperature of  $-20\text{ °C}$  to  $+60\text{ °C}$ , pressure of 0.8 bar to 1.1 bar).



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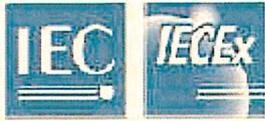
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**DETAILS OF CERTIFICATE CHANGES (for issues 1 and above):**

The address of the manufacturer has been changed.

**Annex:**

[Annex2IECEXIBE130050X00.pdf](#)



# IECEX Certificate of Conformity



Annex to CoC No. IECEx IBE 13.0050X issue 00 Date: 2014-02-04

## Technical data

Ambient temperature range	-20 °C to +70 °C	
Supply circuit in type of protection	Intrinsic Safety Ex ia IIC (supply + and -)	
	$U_i$	28 V DC
	$I_i$	93 mA
	$P_i$	660 mW
effective inner capacity	$C_i$	negligible
effective inner inductivity	$L_i$	negligible
plus line inductivities 1 $\mu$ H/m and line capacities 160 pF/m (cable supplied by the manufacturer) The supply connections have an inner capacity of max. 27 nF to the housing.		