



# 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 TUN 09.0013X** issue No.: **0** Certificate history: .....

Status: **Current**

Date of Issue: **2010-03-04** Page 1 of 3

Applicant: **FAFNIR GmbH**  
Bahrenfelder Straße 19  
22765 Hamburg  
Germany

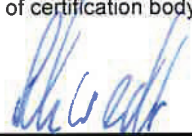
Electrical Apparatus: **Flameproof enclosure type HPH Ex d resp. type HPH Ex d D**  
Optional accessory:

Type of Protection: **Flameproof enclosures**

Marking: **Ex d IIC T4 Gb**

Approved for issue on behalf of the IECEx Certification Body: Mr. Karl-Heinz Schwedt

Position: Head of certification body

Signature: *(for printed version)* 

Date: 2010-03-18

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.

Certificate issued by:

**TÜV NORD CERT GmbH**  
Hanover Office  
Am TÜV 1  
30519 Hannover  
Germany





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Manufacturer: **FAFNIR GmbH**  
Bahrenfelder Straße 19  
22765 Hamburg  
Germany  
**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 : 2007-10** Explosive atmospheres - Part 0: Equipment - General requirements  
Edition: 5

**IEC 60079-1 : 2007-04** Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"  
Edition: 6

*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/TUN/ExTR09.0022/00](#)

Quality Assessment Report:

[DE/TUN/QAR06.0013/01](#)



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## Schedule

### EQUIPMENT:

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

The flameproof enclosure type HPH Ex d or type HPH Ex d D is used mainly for the visualization of a current signal. The signal current of 4...20 mA is displayed on the display as 0...100 % value. The digital display does not need a separate power supply because it is fed by the signal current. A threaded hole, preferably M24 x 1.5, for receiving a flameproof safety barrier can be used.

The flameproof enclosure Ex d HPH is available in 2 versions:

HPH Ex d D: flameproof enclosure with digital display

HPH Ex d: flameproof enclosure without digital display

### Technical data

Permitted range of ambient temperature	-40 °C to +85 °C
Input voltage with digital display	16 V to 29 V
Input voltage without digital display	12 V to 26 V
Input current	4 mA to 20 mA

### CONDITIONS OF CERTIFICATION: YES as shown below:

1. For the electrical connection in accordance with IECEx standard certified cable glands in the type of protection flameproof enclosure must be used.
2. When using a flameproof security barrier it must be certified according to IECEx standard.
3. The safety level of the threaded joint is higher than in the standard EN 60079-1 required safety level.