



# 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 10.0014** issue No.:1

Status: **Current**

Certificate history:  
Issue No. 1 (2015-1-14)  
Issue No. 0 (2010-9-2)

Date of Issue: **2015-01-14** Page 1 of 4

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

Electrical Apparatus: **Environmental Sensor Leakage Control VISY-Reed ...**  
Optional accessory:

Type of Protection: **Intrinsic Safety**

Marking: **Ex ia IIC T6...T5 Ga resp. Ex ia IIC T6 ... T4 Gb**

Approved for issue on behalf of the IECEx  
Certification Body:

Karl-Heinz Schwedt

Position:

Head of IECEx certification Body

Signature:  
(for printed version)

Date:

2015-01-14

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:

**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**

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/TUN/ExTR10.0015/00](#)

[DE/TUN/ExTR10.0015/01](#)

Quality Assessment Report:

[DE/TUN/QAR06.0013/03](#)



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## Schedule

### EQUIPMENT:

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

The measuring transmitter type VISY-Reed ... is used for liquid detection in hazardous explosive areas.

### CONDITIONS OF CERTIFICATION: NO



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

Assessment to the latest edition of standards (IEC 60079-0 dated 2004 to 2011; IEC 60079-11 dated 2006 to 2011; no changes in case of IEC 60079-26:2006 )

Change of the maximum ambient temperature from +75 °C to +85 °C

Change of the internal inductance  $L_i$  from 120  $\mu$ H to 100  $\mu$ H

Change of temperature class for Zone 0 (Ga) from T4 to T6...T5

Change of marking

New instruction manual

The ambient temperature and the electrical data can be found in the annexe " Attachment to IECEX TUN 10.0014 Issue 1".

### Temperatures

The permissible ambient temperature ranges in dependence of the temperature class have to be taken from the following tables:

#### Use as EPL Ga apparatus

Temperature class	Ambient temperature range
T6	-20 °C to +50 °C
T5 to T1	-20 °C to +60 °C

The process pressure of the media has to be from 0.8 bar to 1.1 bar when potentially explosive mist air exist. If no potential explosive mixtures exist, the devices may also be operated outside of this stated range according to the specification of the manufacturer.

#### Use as EPL Gb apparatus

Temperature class	Ambient temperature range
T6	-40 °C to +50 °C
T5	-40 °C to +65 °C
T4 to T1	-40 °C to +85 °C

### Electrical data

Signal and supply circuit  
(terminals +, A, B, -)

in type of protection "Intrinsic Safety" Ex ia IIC/IIB  
only for the connection to a certified intrinsically safe circuit

Maximum values:  $U_i = 15 \text{ V}$   
 $I_i = 60 \text{ mA}$   
 $P_i = 100 \text{ mW}$   
 $L_i = 100 \text{ } \mu\text{H}$   
 $C_i = 10 \text{ nF}$