



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 TUN 12.0042** issue No.: **0** Certificate history:

Status: **Current**

Date of Issue: **2013-02-06** Page 1 of 3

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

Electrical Apparatus: **Pressure Sensor type VPS-...**
Optional accessory:

Type of Protection: **Intrinsic Safety "ia"**

Marking: **Ex ia IIC T6 Ga**
Ex ia IIC T6 Ga/Gb
Ex ia IIC T6 Gb

Approved for issue on behalf of the IECEx
Certification Body:

Karl-Heinz Schwedt

Position:

Head of the IEC Certification Body

Signature:
(for printed version)

Date:

2013-02-06

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

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 60079-11 : 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

*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/ExTR12.0048/00](#)

Quality Assessment Report:

[DE/TUN/QAR06.0013/02](#)



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Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

The Pressure Sensor VPS-... is used for the detection of inner tank pressures in explosive hazardous areas.

Technical data see "Attachment to IECEx TUN 12.0042 Issue 0.pdf".

CONDITIONS OF CERTIFICATION: NO

Temperatures

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

Use as EPL Ga and EPL Ga/Gb apparatus

Temperature class	Ambient and medium temperature range
T6	-20 °C to +45 °C
T1 to T5	-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 mixtures exist. If no potential explosive mixtures exist, the device may also be operated outside of this stated range according to the specification of the manufacturer.

Use as EPL Gb apparatus

Temperature class	Ambient and medium temperature range
T6	-20 °C to +45 °C
T5	-20 °C to +60 °C
T1 to T4	-20 °C to +70 °C

Electrical data

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

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

Maximum values: $U_i = 15 \text{ V}$
 $I_i = 100 \text{ mA}$
 $P_i = 100 \text{ mW}$
 $L_i = 50 \text{ } \mu\text{H}$
 $C_i = 10 \text{ nF}$