



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 05.0004** issue No.: **0** Certificate history:

Status: **Current**

Date of Issue: **2006-06-08** Page 1 of 3

Applicant: **FAFNIR GmbH**
Bahrenfelder Str. 19
D-22765 Hamburg
Germany

Electrical Apparatus: **Magnetostrictive Tank Level Gauge VISY-Stick**
Optional accessory:

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

Marking: **Zone 0/1 Ex ia IIC T6**
Zone 0 Ex ia IIC T4


*Approved for issue on behalf of the IECEx
Certification Body:*

Karl-Heinz Schwedt

Position:

Head of IECExCB

*Signature:
(for printed version)*



2006-06-08

Date:

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 & Co. KG
Am TÜV1
D-30519 Hannover
Germany





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Manufacturer: **FAFNIR GmbH**
Bahrenfelder Str. 19
D-22765 Hamburg
Germany

Manufacturing location(s):

FAFNIR GmbH
Bahrenfelder Str. 19
D-22765 Hamburg
Germany

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 : 2004 Edition: 4.0	Electrical apparatus for explosive gas atmospheres - Part 0: General requirements
IEC 60079-11 : 1999 Edition: 4	Electrical apparatus for explosive gas atmospheres - Part 11: Intrinsic safety 'i'
IEC 60079-26 : 2004 Edition: 1	Electrical apparatus for explosive gas atmospheres - Part 26: Construction, test and marking of Group II Zone 0 electrical apparatus

*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

IECEX ATR:
DE/TUN/06/337415

File Reference:
99/PX22990
02YEX133817
06YEX333058-1



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Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

The Magnetostrictive Tank Level Gauge VISY-Stick is used for the detection of filling levels in hazardous explosive areas. If the whole sensor is arranged in Zone 0 the maximal temperature is +60 °C. Elsewhere it is only allowed to arrange the sensor pipe and the floaters in hazardous of the Zone 0.

The maximal permissible ambient temperature is for zone 0/1:

	T6	T5	T4
max. ambient temperature	+50 °C	+65 °C	+75 °C

and +60 °C for zone 0.

Electrical Data

Signal- and supply circuit

in type of protection „Intrinsic Safety“ EEx ia IIC
only for the connection to certified intrinsically safe circuits with
the following maximum values:

$$U_i = 15 \text{ V}$$

$$I_i = 60 \text{ mA}$$

$$P_i = 100 \text{ mW}$$

$$C_i = 10 \text{ nF}$$

$$L_i = 0,1 \text{ mH}$$

CONDITIONS OF CERTIFICATION: NO