

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 17.0019	X issue No.:0	Certificate history
Status:	Current		
Date of Issue:	2017-07-31	Page 1 of 3	
Applicant:	FAFNIR GmbH Schnackenburgallee 1 22525 Hamburg Germany	, 49 c	•
Equipment: Optional accessory:	Radio Transmitter VI	SY-RFT-L	
Type of Protection:	Intrinsic Safety		
Marking:	Ex ia IIC T4 Ga		
Approved for issue on b Certification Body:	pehalf of the IECEx	Andreas Meyer	
Position:		Head of Certification Body	
Signature: (for printed version)		bill for	
Date:		2017-07-31	
 This certificate is not The Status and auther 	chedule may only be repro transferable and remains enticity of this certificate m	oduced in full. the property of the issuing body. ay be verified by visiting the Official IECEx We	ebsite.
Certificate issued by:			~
	V NORD CERT GmbH Hanover Office UV 1, 30519 Hannover Germany	TUVN	ORD



IECEx Certificate of Conformity

Certificate No.:

IECEx TUN 17.0019X

Date of Issue:

2017-07-31

Issue No.: 0 Page 2 of 3

Manufacturer:

FAFNIR GmbH Schnackenburgallee 149 c 22525 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
 Explosive atmospheres - Part 0: General requirements

 Edition: 6.0
 Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"

 Edition: 6.0
 Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"

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/ExTR17.0018/00

Quality Assessment Report:

DE/TUN/QAR06.0013/05



IECEx Certificate of Conformity

Certificate No.:

IECEx TUN 17.0019X

Date of Issue:

2017-07-31

Issue No.: 0

Page 3 of 3

Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

 The radio transmitter is used for transmitting data from the level measurement from the potential explosive atmosphere. The radio transmitter is operated with a replaceable battery pack.

 VISY-RFT-L
 Radio transmitter

 L0
 Battery pack with small capacity

 L1
 Battery pack with medium capacity

 L2
 Battery pack with large capacity

 For Technical Data see Attachment to IECEx TUN 17.0019X issue No.0

SPECIFIC CONDITIONS OF USE: YES as shown below:

The radio transmitter is built in a plastic enclosure. The risk of ignition by static electricity due to friction on the enclosure has to be avoided. The equipment shall be cleaned only with damp or antistatic cloth.

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



Page 1 of 1 Attachment to IECEx TUN 17.0019X issue No.:0

Temperatures

The permissible ambient temperature range is -40 °C to + 60 °C.

For EPL "Ga" application when potentially explosive atmosphere exists it must be considered the standard atmospheric conditions referring to temperature of -20 °C to +60 °C and pressure from 0.8 bar to 1.1 bar. If no potential explosive atmosphere exists, the devices may also be operated at the aforementioned permissible ambient temperature range.

Electrical data

Auxiliary power	Nominal voltage 3.6 V from battery pack type L0, L1 or L2 from Co. FAFNIR GmbH
Sensor circuit (terminals +, A, B, -)	in type of protection "Intrinsic Safety" Ex ia IIC/IIB Maximum values: $U_o = 7.8 V$ $I_o = 59 mA$ $P_o = 98 mW$
	Characteristic line: linear
	C _i negligibly small L _i negligibly small
	The maximum permissible values for the external inductance (L_o) and capacitance (C_o) shall be taken from the following table:

	Ex ia IIC		Ex ia IIB	
Lo	10 mH	5 mH	50 mH	20 mH
Co	0.69 µF	0.95 μF	2.6 µF	4 µF

The aforementioned maximum values of L_o and C_o consider the coincidental appearance of capacitance and inductance with the intention to allow the use of long connecting cables. When the radio transmitter is used in a potentially explosive atmosphere, the concentrated inductance of the connected sensor must not exceed a value of 90 μ H for Group IIC respectively 390 μ H for Group IIB.