



IECEX Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification System for Explosive Atmospheres

for rules and details of the IECEx Scheme visit www.iecex.com

Certificate No.: **IECEX TUN 17.0019X** Page 1 of 4 [Certificate history:](#)
Issue 0 (2017-07-31)

Status: **Current** Issue No: 1

Date of Issue: 2023-11-16

Applicant: **FAFNIR GmbH**
Schnackenburgallee 149 c
22525 Hamburg
Germany

Equipment: **Radio Transmitter VISY-RFT**

Optional accessory:

Type of Protection: **Intrinsic Safety**

Marking: **Ex ia [ia Ga] IIC T4 Ga**

Approved for issue on behalf of the IECEx
Certification Body:

Christian Roder

Position:

Head of IECEx Certification Body

Signature:
(for printed version)

Date:
(for printed version)

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 www.iecex.com or use of this QR Code.



Certificate issued by:

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





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Manufacturer: **FAFNIR GmbH**
Schnackenburgallee 149 c
22525 Hamburg
Germany

Manufacturing
locations:

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 equipment 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 60079-0:2017](#) Explosive atmospheres - Part 0: Equipment - General requirements
Edition:7.0

[IEC 60079-11:2011](#) Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"
Edition:6.0

This Certificate **does not** indicate compliance with 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/ExTR17.0018/01](#)

Quality Assessment Report:

[DE/TUN/QAR06.0013/09](#)



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EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

The radio transmitter is an intrinsically safe apparatus for transmitting sensor data from potentially explosive atmospheres. The radio transmitter is operated with a replaceable battery pack.

VISY-RFT Radio Frequency Transmitter

L2 Replaceable Batterie Pack

For Technical Data see Attachment to IECEx TUN 17.0019X issue No.1

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 is to be avoided. The equipment shall be cleaned only with damp or antistatic cloth.



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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)

Proof of conformity of Radio Transmitter type VISY-RFT to versions of the standards IEC 60079-0:2017 and IEC 60079-11:2011. Further the name of equipment has changed from VISY-RFT-L to VISY-RFT and the batterie packs L0 and L1 are out of scope. Also the inner structure has changed. In addition, change of marking relating to the associated sensor output as well as change of electrical data for L_o and C_o (uncritical compared to previous certificates).

Annex:

[Attachment to IECEx TUN 17.0019X issue No. 1.pdf](#)

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Attachment to IECEx TUN 17.0019X issue No. 1

General product information:

Description:

The radio transmitter is an intrinsically safe apparatus for transmitting sensor data from potentially explosive atmospheres. The radio transmitter is operated with a replaceable battery pack.

Type code and Marking:

VISY-RFT	Radio Frequency Transmitter	Ex ia [ia Ga] IIC T4 Ga
L2	Replaceable Batterie Pack	Use only on VISY-RFT

Electrical data:

Auxiliary power	Nominal voltage 3.6 V from internal battery pack type L2 from FAFNIR GmbH
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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
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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	
L _o	10 mH	5 mH	50 mH	20 mH
C _o	0.78 µF	1.0 µF	4.6 µF	6.1 µF

Thermal data:

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

Details of change:

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Specific Conditions of Use:

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