

Translation

(1) **EU-Type Examination Certificate**

- (2) Equipment and protective systems intended for use in potentially explosive atmospheres, **Directive 2014/34/EU**



- (3) **Certificate Number** TÜV 07 ATEX 554018 X **issue:** 00
- (4) for the product: Radio Transmitter type VISY-RFT-L
- (5) of the manufacturer: **FAFNIR GmbH**
- (6) Address: Schnackenburgallee 149 c, 22525 Hamburg, Germany
- Order number: 8000468089
- Date of issue: 2017-07-28

- (7) The design of this product and any acceptable variation thereto are specified in the schedule to this EU-Type Examination Certificate and the documents therein referred to.

- (8) The TÜV NORD CERT GmbH, Notified Body No. 0044, in accordance with Article 17 of the Directive 2014/34/EU of the European Parliament and the Council of 26 February 2014, certifies that this product has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of products intended for use in potentially explosive atmospheres given in Annex II to the Directive.

The examination and test results are recorded in the confidential ATEX Assessment Report No. 17 203 193457.

- (9) Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

EN 60079-0:2012 + A11:2013 **EN 60079-11:2012**

except in respect of those requirements listed at item 18 of the schedule.

- (10) If the sign "X" is placed after the certificate number, it indicates that the product is subject to the Specific Conditions for Use specified in the schedule to this certificate.
- (11) This EU-Type Examination Certificate relates only to the design, and construction of the specified product. Further requirements of the Directive apply to the manufacturing process and supply of this equipment. These are not covered by this certificate.
- (12) The marking of the product shall include the following:

 **II 1 G Ex ia IIC T4 Ga**

TÜV NORD CERT GmbH, Langemarckstraße 20, 45141 Essen, notified by the central office of the countries for safety engineering (ZLS), Ident. Nr. 0044, legal successor of the TÜV NORD CERT GmbH & Co. KG Ident. Nr. 0032

The head of the notified body



Andreas Meyer

Hanover office, Am TÜV 1, 30519 Hannover, Tel. +49 511 998-61455, Fax +49 511 998-61590

(13) **SCHEDULE**

(14) **EU-Type Examination Certificate No. TÜV 07 ATEX 554018 X issue 00**

(15) Description of product

The radio transmitter type VISY-RFT-L is an intrinsically safe device for category 1 (zone 0) for the transmission of data from the level measurement from category 1 (zone 0). The radio transmitter polls periodically the sensor according to its data and sends it via a unidirectional radio link. The radio transmitter is operated with a replaceable battery pack.

Type designation:

VISY-RFT-L	Radio transmitter
L0	Battery pack with small capacity
L1	Battery pack with medium capacity
L2	Battery pack with large capacity

Technical data:

Auxiliary power	Nominal voltage 3.6 V from battery pack type L0, L1 or L2 from Co. 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
C _o	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 µH for Group IIC respectively 390 µH for Group IIB.

Permissible range of ambient temperature range: -40 °C to + 60 °C.

For application in zone 0 (1G) when potentially explosive atmosphere exists it must be considered the standard atmospheric conditions of a temperature from -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.

Schedule to EU-Type Examination Certificate No. TÜV 07 ATEX 554018 X issue 00

(16) Drawings and documents are listed in the ATEX Assessment Report No. 17 203 193456.

(17) Specific Conditions for Use

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.

(18) Essential Health and Safety Requirements

no additional ones

- End of Certificate -