

Translation



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

(2) Equipment and protective systems intended for use in potentially explosive atmospheres, **Directive 94/9/EC**

(3) **Certificate Number** TÜV 11 ATEX 078858

(4) for the equipment: Level Gauge CONDURIX Ex ...

(5) of the manufacturer: FAFNIR GmbH

(6) Address: Bahrenfelder Straße 19
22765 Hamburg
Germany

Order number: 8000392998

Date of issue: 2011-04-07

(7) This equipment or protective system and any acceptable variation thereto are specified in the schedule to this certificate and the documents therein referred to.

(8) The TÜV NORD CERT GmbH, notified body No. 0044 in accordance with Article 9 of the Council Directive of the EC of March 23, 1994 (94/9/EC), certifies that this equipment or protective system has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment and protective systems intended for use in potentially explosive atmospheres given in Annex II to the Directive. The examination and test results are recorded in the confidential report No. 11 203 078858.

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

EN 60 079-0:2009

EN 60079-11:2007

EN 60079-26:2007

(10) If the sign "X" is placed after the certificate number, it indicates that the equipment or protective system is subject to special conditions for safe use specified in the schedule to this certificate.

(11) This EC-type examination certificate relates only to the design, examination and tests of the specified equipment in accordance to the Directive 94/9/EC. 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 equipment or protective system must include the following:



**II 1 G Ex ia IIC/IIB T6 Ga resp. II 1/2 G Ex ia IIC/IIB T6 Ga/Gb or
II 1 G Ex ia IIB T6 Ga resp. II 1/2 G Ex ia IIB T6 Ga/Gb**

TÜV NORD CERT GmbH, Langemarckstraße 20, 45141 Essen, accredited 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 certification body

Schwedt

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(13) **SCHEDULE**

(14) **EC-Type Examination Certificate No. TÜV 11 ATEX 078858**

(15) Description of equipment

The Level Gauge CONDURIX Ex ...is used for continuous measuring of liquid detection in explosive hazardous areas.

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

Use as Category 1 apparatus

Temperature class	Ambient temperature range/Medium temperature
T6	-20 °C to +45 °C
T5 to T1	-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 exit. 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 Category 1/2 apparatus

Temperature class	Ambient temperature range	Medium temperature
T6	-40 °C to +45 °C	-20 °C to +60 °C
T5	-40 °C to +60 °C	-20 °C to +60 °C
T4 to T1	-40 °C to +85 °C	-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 exit. 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 Category 2 apparatus

Temperature class	Ambient temperature range	Medium temperature
T6	-40 °C to +45 °C	-40 °C to +85 °C
T5	-40 °C to +60 °C	-40 °C to +100 °C
T4	-40 °C to +85 °C	-40 °C to +135 °C
T3	-40 °C to +85 °C	-40 °C to +200 °C
T2	-40 °C to +85 °C	-40 °C to +300 °C
T1	-40 °C to +85 °C	-40 °C to +450 °C

Schedule EC-Type Examination Certificate No. TÜV 11 ATEX 078858

Electrical data

Signal- and power circuit
(terminals + and – resp.
M12 plug Pin 1 (+) and Pin 3 (-))

in type of protection “Intrinsic Safety” Ex ia IIC/IIB
only for the connection to a certified intrinsically safe circuit

Maximum values: $U_i = 30 \text{ V}$
 $I_i = 200 \text{ mA}$
 $P_i = 1 \text{ W}$
 $L_i = 30 \text{ } \mu\text{H}$
 $C_i = 5 \text{ nF}$

(16) Test documents are listed in the test report No. 11 203 078858.

(17) Special conditions for safe use

none

(18) Essential Health and Safety Requirements

no additional ones