

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 02 ATEX 1951 X **issue:** 01

(4) for the product: Conductive level probe types 11961Z-\*..., 11375Z-\*..., 11362Z-\*... and 11363Z-\*...

(5) of the manufacturer: Endress+Hauser SE+Co. KG

(6) Address: Hauptstr. 1  
79689 Maulburg  
Germany

Order number: 8003019708

Date of issue: 2020-07-17

(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. 20 203 271332.

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

**EN IEC 60079-0:2018**

**EN 60079-11:2012**

**EN 60079-26:2015**

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



Roder

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## (13) SCHEDULE

### (14) EU-Type Examination Certificate No. TÜV 02 ATEX 1951 X issue 01

#### (15) Description of product

The conductive level probes type 11961Z-\*..., 11375Z-\*..., 11362Z-\*... resp. 11363Z-\*... in connection with the associated limit switch transducers are intended for the limit detection of conductive liquids. The limit switch transducers are not part of this EU-Type-Examination Certificates.

Type key:

The star "\*" replaced by a letter (A, K, P or Q) describes the approval resp. the marking and permissible ambient and process temperature range.

Technical data:

Measuring circuit

in type of protection „Intrinsic Safety“ Ex ia IIC  
only for the connection to the intrinsically safe input circuit of the limit switch transducers NIVOTESTER type FTW 470 Z, FTW 570 Z, FTW 520 Z resp. FTW 325

The effective internal capacitance and inductance are negligibly small.

Permissible range of ambient temperature:

The permissible range of the ambient temperature  $T_a$  equals to the permissible range of the process temperature  $T_p$ . The permissible ambient and process temperature ranges depend from the temperature class and shall be taken from the following table:

Type code	$T_a$ and $T_p$ acc. to the temperature class			
	T6	T5	T4	T3
11375Z-Q...	-40 °C...+70 °C	-	-	-
11375Z-P...	-40 °C...+85 °C	-40 °C...+100 °C	-40 °C...+135 °C	-
11961Z-A...	-200 °C...+70 °C	-	-	-
11961Z-P...	-200 °C...+85 °C	-200 °C...+100 °C	-200 °C...+135 °C	-200 °C...+200 °C
11362Z-A...	-50 °C...+70 °C	-	-	-
11362Z-K...	-50 °C...+85 °C	-50 °C...+100 °C	-50 °C...+135 °C	-
11362Z-P...	-50 °C...+85 °C	-50 °C...+100 °C	-50 °C...+135 °C	-
11363Z-A...	-50 °C...+70 °C	-	-	-
11362Z-K...	-50 °C...+85 °C	-50 °C...+100 °C	-50 °C...+135 °C	-
11362Z-P...	-50 °C...+85 °C	-50 °C...+100 °C	-50 °C...+135 °C	-

The level probes may only be operated in potentially atmospheres requiring equipment of category 1 when atmospheric conditions exist (temperature between -20 °C to +60 °C, pressure between 0.8 bar to 1.1 bar).

## Schedule to EU-Type Examination Certificate No. TÜV 02 ATEX 1951 X issue 01

The marking is

**Types 11375Z-\*..., 11961Z-\*..., 11362Z-A... / 11362Z-P... and 11363Z-A... / 11363Z-P...**



**II 1/2 G Ex ia IIC T6 Ga/Gb**

**Types 11362Z-K... and 11363Z-K...**



**II 1 G Ex ia IIC T6 Ga**

(16) Drawings and documents are listed in the ATEX Assessment Report No. 20 203 271332

(17) Specific Conditions for Use

Safety instructions and the following Special Conditions for Safe Use have to be observed:

Since the intrinsically safe circuit is grounded as standard, there must be a common potential equalization over the whole cable length (inside and outside of the potentially explosive area).  
The tank has to be included into this potential equalization system.

The tank may be installed ungrounded, when an external cathodic protection system is used. In this case the installation has to be carried out according to the drawing No. 960 129-0005.

**Types 11375Z-\*..., 11961Z-\*..., 11362Z-A... / 11362Z-P... and 11363Z-A... / 11363Z-P...:**

The equipment is intended to be installed via the process connection into tank walls, separating Ga resp. Gb requiring areas (application acc. to the marking **II 1/2 G**). The tightness of the process connection for zone separation depends on the design of the counterpart and the correct installation of the equipment and is not evaluated within this EU-Type-Examination Certificate. The tightness of the process connection (in accordance with EN 60079-26:2015, section 4.3) must be tested and ensured by the user.

**Types 11362Z-K... and 11363Z-K...:**

The type plate and the connection head consist of aluminum. Therefore for areas requiring Ga (application acc. to the marking **II 1 G**) it must be ensured that mechanical impacts and friction on the type plate and the connection head are avoided. This can be achieved by installation of the equipment into an additional enclosure with at least IP20.

(18) Essential Health and Safety Requirements

no additional ones

- End of Certificate -