

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 03 ATEX 2069 X **Issue:** 00
(4) for the product: Liquipoint T type FTW31-***** and type FTW32-*****
(5) of the manufacturer: **Endress+Hauser SE+Co. KG**
(6) Address: Hauptstraße 1, 79689 Maulburg, Germany
Order number: 8003032125
Date of issue: 2021-12-01

(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. 21 203 296173.

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

EN IEC 60079-0:2018

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 2 G Ex ia IIC T5 Gb (Variant without electronic FTW31-*****O* resp. FTW32-*****O*)**
II 2 G Ex ia [ia] IIC T6 Gb (Variant with electronic FTW31-***8* resp. FTW32-*****8*)**

TÜV NORD CERT GmbH, Am TÜV 1, 45307 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 deputy head of the notified body

Meyer

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(13) **SCHEDULE**

(14) **EU-Type Examination Certificate No. TÜV 03 ATEX 2069 X Issue 00**

(15) **Description of product:**

The level probe Liquipoint T type FTW31-***** and type FTW32-*****, designed as a modular system, are used for the limit detection of fluidal, conductive media. The associated electronics shall either be mounted into the sensor enclosure or erected separately. The intrinsically safe Liquipoint T point level switch is used in potentially explosive atmosphere for conductive point level detection. Depending on the number of measuring (up to 5 rods or ropes) measuring tasks such as overfill protection, dry running protection or multiple point detection can be implemented.

Type code:

Liquipoint T type FTW31-***** and type FTW32-*****

Electrical data:

Variant without electronic FTW31-**O* resp. FTW32-****O*:**

Power supply (Terminals 1 to 3)	In type of protection intrinsic safety Ex ia IIC Only for connection to a certified intrinsically safe circuit. Maximum values: U _i = 16 V I _i = 52 mA P _i = 242 mW Effective internal capacitance C _i negligibly small Effective internal inductance L _i negligibly small
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Variant with electronic FTW31-**8* resp. FTW32-****8*:**

Power supply (Terminals 1 to 3)	In type of protection intrinsic safety Ex ia IIC Only for connection to a certified intrinsically safe circuit. Maximum values: U _i = 16 V I _i = 52 mA P _i = 242 mW Effective internal capacitance C _i negligibly small Effective internal inductance L _i negligibly small
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Sensor circuit	In type of protection intrinsic safety Ex ia IIC Maximum values: U _o = 7.2 V I _o = 1.6 mA P _o = 3 mW Characteristic line: linear Effective internal capacitance C _i = 1.692 µF Effective internal inductance L _i negligibly small Max. permissible external capacitance C _o = 11.8 µF Max. permissible external inductance L _o = 1 H These values are only allowed to be used up to the permissible limits as cable reactances.
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Schedule to EU-Type Examination Certificate No. TÜV 03 ATEX 2069 X Issue 00

Thermal data:

Variant	Temperature class	Permissible range of ambient temperature
FTW31-****O* resp. FTW32-****O* (without electronic)	T5	-40 °C ≤ Ta ≤ +95 °C
FTW31-****8* resp. FTW32-****8* (with electronic)	T6	-40 °C ≤ Ta ≤ +60 °C

(16) Drawings and documents are listed in the ATEX Assessment Report No. 21 203 296173

(17) **Specific Conditions for Use:**

The level probe Liquipoint T type FTW31-***** and type FTW32-***** has to be installed and used in such a way, that electrostatic charging from operation, maintenance and cleaning is excluded.

(18) **Essential Health and Safety Requirements:**

No additional ones

- End of EU-Type Examination Certificate -