

CERTIFICATE

(1) EU-Type Examination

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

(3) EU-Type Examination Certificate Number: **DEKRA 15ATEX0088** Issue Number: **1**

(4) Product: **Liquid Level Switches Liquiphant M, type FTL50-..., type FTL50H-..., type FTL51-..., type FTL51H-... and type FTL51C-... and Liquid Level Switches Liquiphant S, type FTL70-... and type FTL71-...**

(5) Manufacturer: **Endress+Hauser SE+Co. KG**

(6) Address: **Hauptstraße 1, 79689 Maulburg, Germany**

(7) This product and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.

(8) DEKRA Certification B.V., Notified Body number 0344 in accordance with Article 17 of Directive 2014/34/EU of the European Parliament and of the Council, dated 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 confidential test report number NL/DEK/ExTR15.0080/01.

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

EN 60079-0 : 2012 + A11 : 2013
EN 60079-7 : 2007

EN 60079-1 : 2014
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 of 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 product. These are not covered by this certificate.

(12) The marking of the product shall include the following:



Refer to Annex 1 to this certificate for Type designation and Equipment marking.

Date of certification: 24 September 2018

DEKRA Certification B.V.

R. Schuller
Certification Manager



(13) **SCHEDULE**

(14) **to EU-Type Examination Certificate DEKRA 15ATEX0088**

Issue No. 1

(15) **Description**

Liquid Level Switches Liquiphant M type FTL50-..., type FTL50H-..., type FTL51-..., type FTL51H-... and type FTL51C-... and Liquid Level Switches Liquiphant S type FTL70-... and type FTL71-... for use in explosive atmospheres caused by the presence of combustible gases, fluids or vapours. The Liquid Level Switch consists of a sensor which directly detect a liquid level by means of a symmetrical vibrating fork. The different electronic inserts in the transmitter enclosure, converts the fork frequency into an electrical signal.

The Liquid Level Switches Liquiphant M and Liquiphant S are used for the measurement of the density or concentration of a process fluid, if provided with the electronics insert type FEL50D and connected to the Endress+Hauser Interface Type FML621.

Depending on the version, the sensor is mounted directly to the enclosure (compact versions, type FTL50, type FTL50H and type FTL70) or via a temperature spacer and / or extension tube (type FTL51, type FLT51H, type FTL51C and type FTL71).

The process contacting parts of Liquid Level Switch Liquiphant M type FTL51C are provided with a protective coating.

For type designation, marking and technical data refer to Annex 1 to this certificate.

Installation instructions

The instructions provided with the product shall be followed in detail to assure safe operation.

(16) **Report Number**

No. NL/DEK/ExTR15.0080/01.

(17) **Specific conditions of use**

None.

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

Covered by the standards listed at item (9).

(19) **Test documentation**

As listed in Report No. NL/DEK/ExTR15.0080/01.

(20) **Certificate history**

Issue 0 - 218554700 initial certificate.

Issue 1 - 222702300 Name change of the manufacturer, minor changes of the construction