

# 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: **KEMA 08ATEX0173** Issue Number: **3**

(4) Product: **Liquid Level Transmitter Type Waterpilot FMX21**

(5) Manufacturer: **Endress+Hauser GmbH+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/KEM/ExTR09.0031/02.

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

**EN 60079-0 : 2012 + A11      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 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:



**II 2 G Ex ia IIC T6 ... T4 Gb**

Date of certification: 23 December 2016

DEKRA Certification B.V.

R. Schuller  
Certification Manager

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(13) **SCHEDULE**

(14) **to EU-Type Examination Certificate KEMA 08ATEX0173**

Issue No. 3

(15) **Description**

Level Transmitter Waterpilot FMX21-... is a pressure transmitter that is applied for measuring a liquid level using hydrostatic pressure measurement.

The transmitter consists of a sensor assembly that is suspended by means of its cable down to the bottom of the tank or reservoir and optionally a terminal enclosure for connection of the field wiring. The measured pressure is proportional to the height of the water column above the sensor. The measurement signal is converted into a 4 - 20 mA current signal with or without digital communication (HART).

Ambient temperature range -10 °C to +40 °C for T6;  
-10 °C to +55 °C for T5;  
-10 °C to +70 °C for T4.

**Electrical data**

Supply and output signal (red and black wires and/or optionally, terminals + and -):  
in type of protection intrinsic safety Ex ia IIC, only for connection to a certified intrinsically safe circuit, with following maximum values:

$U_i = 30 \text{ Vdc}$ ;  $I_i = 133 \text{ mA}$ ;  $P_i = 1 \text{ W}$ ;  $L_i = 1 \text{ }\mu\text{H/m}$  (integral cable);  
 $C_i = 10,3 \text{ nF} + 180 \text{ pF/m}$  (integral cable).

**Installation instructions**

The installation instructions as provided by the manufacturer shall be followed in detail in order to assure safe operation of the equipment, taking into account the local installation rules.

(16) **Report Number**

ExTR No. NL/KEM/ExTR09.0031/02.

(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/KEM/ExTR09.0031/02.

(20) **Certificate history**

Issue 1 - 212198500	initial certificate
Issue 2 - 213887400	Electrical and mechanical changes to improve EMC and environmental protection.
Issue 3 - 219871500	Update to the 6th edition of the EN 60079-0 and -11 Alternative installation cable Minor constructional changes Addition of version without digital communication