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 02ATEX1203** Issue Number: **4**

(4) Product: **Display Type FHX 40**

(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/ExTR17.0022/01.

(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 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...T5 Gb
II 2 D Ex ia IIIC T80 °C Db

Date of certification: 20 August 2020

DEKRA Certification B.V.

R. Schuller
Certification Manager

PRODUCTS RvA C 001

DEKRA Certification B.V. Meander 1051, 6825 MJ Arnhem P.O. Box 5185, 6802 ED Arnhem The Netherlands
T +31 88 96 83000 F +31 88 96 83100 www.dekra-product-safety.com Registered Arnhem 09085396

(13) # SCHEDULE

(14) **to EU-Type Examination Certificate KEMA 02ATEX1203** Issue No. **4**

(15) **Description**

Display Model FHX 40 is used for the display of the measurement value of the connected transmitter. The display with an aluminium enclosure, is provided with keys for local configuration and control. The display is connected to the transmitter via a pluggable cable.
The maximum cable length is 40 m.

The enclosure provides a degree of protection of IP 65, 66 and 67 per EN 60079-0 and EN 60529.

Ambient temperature range: -40 ºC to +60 °C for temperature class T6
-40 ºC to +75 °C for temperature class T5
-10 ºC to +75 °C for Category 2 D (EPL Db)

The maximum surface temperature "T" of the enclosure is based on the maximum ambient temperature of 75 °C.

Electrical data

Supply and input circuit (Connector, Pins 1 … 4):
in type of protection intrinsic safety Ex ia IIC or Ex ia IIIC, only for connection to a certified intrinsically safe circuit, with the following maximum values:
U_i = 5,6 V; I_i = 47 mA; P_i = 66 mW; C_i = 11 µF; L_i = 30 µH.

The values for the capacitance C_i and the inductance L_i include the cable capacitance and inductance.

Installation instructions

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

(16) **Report Number**

No. NL/DEK/ExTR17.0022/01.

(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/ExTR17.0022/01.

(13) # SCHEDULE

(14) **to EU-Type Examination Certificate KEMA 02ATEX1203** Issue No. **4**

(20) **Certificate history**

Issue 1	-	202239900	initial certificate
Issue 2	-	213402900	evaluation to newer standards and alternative enclosure
Issue 3	-	221552100	evaluation to newer standards
Issue 4	-	224773900	evaluation to newer standards