

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 02ATEX1018 X** Issue Number: **5**

(4) Product: **Ultrasonic Level Transmitter Prosonic M Type FMU43-.....**

(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/ExTR11.0010/04.

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

EN IEC 60079-0 : 2018

EN 60079-31 : 2014

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 1/2 D or II 2 D Ex ta/tb IIIC Txx °C Da/Db or Ex tb IIIC Txx °C Db or
II 1/3 D Ex ta/tc IIIC Txx °C Da/Dc**

Date of certification: 31 May 2022

DEKRA Certification B.V.

R. Schuller
Certification Manager

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(13) **SCHEDULE**

(14) **to EU-Type Examination Certificate KEMA 02ATEX1018 X**

Issue No. **5**

(15) **Description**

The Ultrasonic Level Transmitter Prosonic M Type FMU 43-..... (with 4" sensor diameter) is used for continuous, contactless level measurement in coarse bulk materials in explosive atmospheres caused by dust/air mixtures.

The Level Transmitter detects the level and converts it into an electrical signal:

2- or 4-wire 4 ... 20 mA, with digital communication (HART protocol), or for Fieldbus connection (either Profibus PA or Foundation Fieldbus).

Only the sensor is suitable for use in atmospheres where the use of apparatus of equipment category 1 D is required. Optionally a display can be fitted.

For description, type designation, thermal data and electrical data, refer to Annex 1 to Report No. NL/DEK/ExTR11.0010/04.

Installation instructions

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

(16) **Report Number**

No. NL/DEK/ExTR11.0010/04.

(17) **Specific conditions of use**

- Low risk of mechanical danger for specific enclosures as specified in Installation manual;
This concerns the windowed cover of the enclosures.

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

Covered by the standards listed at item (9).

(19) **Test documentation**

As listed in Report No. NL/DEK/ExTR11.0010/04.

(20) **Certificate history**

| | |
|---------------------|---|
| Issue 1 - 201205800 | initial certificate |
| A01 - 203186100 | Constructional changes (amendment) |
| A01 - 207343200 | Constructional changes (amendment) |
| Issue 2 - 214034300 | Assessment according to new editions of standards |
| Issue 3 - 222429100 | Manufacturer name change, new display option and minor constructional changes. |
| Issue 4 - 222904100 | Namechange of an internal module |
| Issue 5 - 225044700 | Assessment according to new editions of the standards and change of temperatures. |