

# 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** Issue Number: **4**

(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/ExTR11.0010/03.

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

**EN 60079-0 : 2012 + A11 : 2013      EN 60079-31 : 2009**

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 or II 3 D Ex ta/tc IIIC Txx °C Da/Dc or Ex tc IIIC Txx °C Dc or**

Date of certification: 5 July 2018

DEKRA Certification B.V.

R. Schuller  
Certification Manager

Page 1/2



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(13) **SCHEDULE**

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

Issue No. 4

(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, nomenclature, thermal data and electrical data, refer to Annex 1.

**Installation instructions**

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

(16) **Report Number**

No. NL/DEK/ExTR11.0010/03.

(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/ExTR11.0010/03.

(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