

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 09ATEX0052** Issue Number: **4**

(4) Product: **Pressure Transmitter
Deltabar M Type PMD55 and
Cerabar M Type PMP51 and Type PMP55**

(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/KEM/ExTR09.0023/03.

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

EN IEC 60079-0:2018

EN 60079-1:2014

(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 db IIC T6 or T4 Gb

Date of certification: 24 February 2021

DEKRA Certification B.V.

L.G. van Schie
Certification Manager



(13) **SCHEDULE**

(14) **to EU-Type Examination Certificate KEMA 09ATEX0052**

Issue No. 4

(15) **Description**

Pressure Transmitter, Series Deltabar M, type PMD55 is used to convert a differential pressure into an electric signal.

Pressure Transmitter, Series Cerabar M, type PMP51 and type PMP55 to convert an absolute or gauge pressure into an electric signal.

The transmitters consist of an enclosure with electronics and a sensor module.
The aluminium enclosure is provided with a blind cover or a window cover.

The electronics of the transmitters provide a 4 - 20mA HART, 4 - 20 mA analogue, Profibus PA or Foundation Fieldbus output signal and are optionally provided with a display.

The sensor module varies and defines the transmitter types.

Type designation

Refer to the annex to this certificate: Annex 1 to Report No. NL/KEM/ExTR09.0023/03

Thermal data

Temperature specifications:

Temperature class	Process temperature*		Ambient temperature	
	Min.	Max.	Min.	Max.
	°C	°C	°C	°C
T6	-50	+80	-50	+75
T4	-50	+120	-50	+75

*Measured at the membrane.

Electrical data

Supply voltage 45 Vdc max (4 - 20 mA, HART)

32 Vdc max (PA/FF)

Power dissipation 1,1 W max (4 - 20 mA, HART)

1,25 W max (PA/FF)

Installation instructions

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

(16) **Report Number**

No. NL/KEM/ExTR09.0023/03.

(17) **Specific conditions of use**

None.

(13) **SCHEDULE**

(14) **to EU-Type Examination Certificate KEMA 09ATEX0052**

Issue No. 4

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

Covered by the standards listed at (9).

(19) **Test documentation**

As listed in Report No. NL/KEM/ExTR09.0023/03.

(20) **Certificate history**

211524600 Iss. 1 - Initial certificate.

211524600 Iss. 2 - Upgrade to the above edition of standards.

- Changes in HART electronics and new PA/FF electronics.

- Constructional changes.

218514200 Iss. 3 - Constructional changes.

224591400 Iss. 4 - Name of the applicant changed.

- Assessment per latest issue for both standards.