



TYPE APPROVAL CERTIFICATE
No. ELE165122XG

This is to certify that the product below is found to be in compliance with the applicable requirement of the RINA type approval system.

<i>Description</i>	Pressure transmitters
<i>Type</i>	Cerabar PMP21, PMC21
<i>Applicant</i>	ENDRESS+HAUSER SE & Co. KG Hauptstraße 1 79689 Maulburg GERMANY
<i>Manufacturer</i>	ENDRESS+HAUSER SE & Co. KG
<i>Place of manufacture</i>	Hauptstraße 1 79689 Maulburg GERMANY
<i>Reference standards</i>	Rules for the classification of ships.- Part C - Machinery, systems and fire protection. - Ch.3, Sect. 6, Table 1.

Issued in **HAMBURG** on **June 23, 2022**. *This Certificate is valid until* **June 22, 2027**



RINA Services S.p.A.
Giuseppe Russo

This certificate consists of this page and 1 enclosure

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Cerabar PMP21, PMC21

Product description:

The **Cerabar PMP 21** is a pressure transducer for the measurement of absolute and gauge pressure in gases, vapors, liquids and dust.

The **Cerabar PMC21** is a pressure transducer with ceramic process isolating diaphragm for the measurement of absolute and gauge pressure in gases, vapors and liquids.

Main characteristics:

Output: 4...20mA

Housing: Stainless steel

Degree of protection: IP66 / IP68 (1m)

PMP21 types:

Order code: PMP21 010, 020, 040, 070, 090, 110, 550, 570, 580, 620, 895

010 - Ex certificates: AA, BA, BB, BC, CA, CB, FA, GA, IA, NA, TA

020 - Output signal: 1

040 - Electrical connection: A, B, M, U, V

070 - Measuring range: 1F, 1H, 1K, 1M, 1N, 1P, 1Q, 1R, 1S, 1U, 1W, 2F, 2H, 2K, 2M, 2P, 2S, 2U, 2W

090 - Calibration / Unit: A, B, C, F, J

110 - Process connection: VUJ, VWJ, VXJ, WAJ, WBJ, WJJ, WTJ, WUJ, WWJ, X2J, X3J X4J, ZJJ

550 - Calibration: F3

570 - Service: HA, IA

580 - Test, certificates: JA, KH

620 - Enclosed accessories: QA, QB, QC, RM, RZ, R1

895 - Marking: Z1

PMC21 types:

Order code: PMC21 010, 020, 040, 070, 090, 110, 190, 550, 570, 580, 620, 895

010 - Ex certificates: AA, BA, BB, BC, CA, CB, FA, GA, GR, IA, NA, TA

020 - Output signal: 1

040 - Electrical connection: A, B, C, M, U, V

070 - Measuring range: 1C, 1E, 1F, 1H, 1K, 1M, 1N, 1P, 1Q, 1R, 1S, 2C, 2E, 2F, 2H, 2K, 2M, 2P, 2S

090 - Calibration / Unit: A, B, C, F, J

110 - Process connection: VUJ, VWJ, VXJ, WAJ, WBJ, WTJ, WWJ, X2J, X3J X4J, ZJJ

190 - Seal: A, J

550 - Calibration: F3

570 - Services: HA, HB, IA, I7

580 - Test, certificates: JA

590 - Additional approval: LV

620 - Enclosed accessories: RM, RZ, R1

895 - Marking: Z1

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Cerabar PMP21, PMC21

Documents:

Operating instructions: - BA01271P/00/EN/05.17;
Installation instruction: - TI01133P/00/EN/05.17; TI00426F/00/EN/18.16; TI01133P/00/EN/02.16; TI01133P/00/EN/04.17;
- TI01133P/00/EN/05.17;
Technical documents: - 210108095 Rev. B dated 20.07.2015; 210108140 Rev. 1 dated 05.08.2013;
- 960016585 Rev. B dated 02.09.2014; SAP structure Cerabar PMP21; Ordercode for PMC21_rev02;
Safety instructions: - XA01271PA3_0216; XA01321PEN_0114; XA01322PEN_0114; XA01363PEN_0115;
- XA01533PA3_0216; XA01540PEN_0116; XA01271P-A/00/A3/03.17; XA01321P-A/00/EN/01.14; XA01322P-A/00/EN/01.14;
- XA01363P-A/00/EN/01.15; XA01533P-A/00/A3/02.16; XA01540P-A/00/EN/01.16;

Test reports:

Endress+Hauser GmbH+Co. KG:

- 970004180--_FTL31_IP6x; 970004181--_FTL31_IPx6; 970004182--_FTL31_IPx8; 970005754; 970005756; 970005758;
- 970005760; 970005762; 970005764; 970006606; 970006607; 970008496; 970008497; PMC21-N1009001169 09. Jan 2018 & 14.
March 2018;
- HE-14083a_Baugleichheit Cerabar PMC21 PMP21 - Liquiphant FTL3x - Salznebel;
- Flammtest ULUG000886 AB51718_51744 nach IEC 60332-1-2;

Electrosuisse SEV: - SEV14ATEX0134 dated 2014-09-16;

MeßTechnikNord GmbH: - 071513.001.17 V1.0 dated 2017.01.12; 07461.022.15 V1.0 dated 2015.03.09;

Paconsult GmbH: - 14-6356 dated 26 February 2016;

Treo-Labor für Umweltsimulation GmbH: - 002-18 Rev. 1 dated 4-Apr-18; 023-18 Rev. 1 dated 4-Apr-18;

Remarks:

- The products fulfill **EC-Code: EC 31/41S**.
- The Cerabar PMP21 fulfills the EMC requirements for installation on the Bridge and Deck Zones.
- The Cerabar PMC21 fulfills the EMC requirements for Power distribution zone only.

- This certificate cancels and replaces the certificate no.: ELE125218XG.

HAMBURG June 23, 2022

