Certificate of Compliance

Certificate:	80191571	**Master Contract:**	151079
Project:	80191571	**Date Issued:**	2025-05-19
Issued to:	**Endress+Hauser SE+Co. KG** **Hauptstrasse 1** **Maulburg, Baden-** **Württemberg 79689** **Germany** **Attention:** Armin Hummelbrumm	**Issued by:**	*Szymon Sech* Szymon Sech, Certifier III

The products listed below are eligible to bear the CSA Mark shown with adjacent indicators 'C' and 'US' for Canada and US or with adjacent indicator 'US' for US only or without either indicator for Canada only.

PRODUCTS

Class 2258 04 PROCESS CONTROL EQUIPMENT - Intrinsically Safe, Entity - For Hazardous Locations
Class 2258 84 PROCESS CONTROL EQUIPMENT - Intrinsically Safe, Entity - For Hazardous Locations - Certified to US Standards

IS Class I, Division 1, Groups A, B, C, D, T4…T1
Class II, Division 1, Groups F, G; Class III, T 135 °C
Ex ia IIC T4...T1 Ga
Ex ia IIIB T 135 °C Da

NIFW Class I, Division 2, Group A, B, C, D, T4…T1
Ex ic IIC T4…T1 Gc
Ex ic IIIB T 135 °C Dc

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2-wire, HART, Bluetooth, indoor and outdoor use (wet location), Intrinsically Safe or Non-Incendive Field Wiring device when installed in accordance with installation drawing number XA03505P-B.

Model(s)	Rated Voltage (VDC)	Rated Current	Enclosure Type Rating	Enclosure IP Rating
Pressure Sensor, Model Cerabar PMP43	12...30	4...20 mA	4X, 6P	66, 68, 69

PMP43-aa bb c d e f g hh i k ll mmm n o + pp rr ss tt uu vv ww xx zz αα γγ		
aa=10		**Approval:**
	CB	CSA C/US IS Cl.I,II,III Div.1 Gr.A-D,F,G T4, Ex ia IIC T4, Ex ia IIIB
	CE	CSA C/US Cl.I Div.2 Gr.A-D T4 (NIFW), Ex ic IIC T4
bb=20		**Output:**
	AA	2-wire 4-20mA
	BA	2-wire 4-20mA HART
c=30		**Display; Operation:**
	C	LED signaling with push button
	D	LED signaling with push button + Bluetooth
	G	Colored display
	H	Colored display + Bluetooth
	J	Colored display with touch control
	K	Colored display with touch control + Bluetooth
d=40		**Housing; Material:**
	F	Compact; 316L
e=50		**Electrical Connection:**
	N	Plug M12, IP66/68/69 NEMA Type 4X/6P
f=55		**Pressure Type:**
	6	Gauge
	8	Absolute
		Application
g=60	A	Process temperature max 100 °C/212 °F
	B	Process temperature max 130 °C /266 °F, 150 °C /302 °F max 1h
	C	Process temperature max 150 °C /302 °F
	D	Process temperature max 200 °C /392 °F
	E	Advanced condensation resistance
hh=75		**Sensor Range**
	Any digit	Sensor pressure, not assessed by the certification

i=80		**Surface Refinement:**
	A	Standard
	E	Hygienic Ra<0.38µm/15µin, electro-polished
k=90		**Calibration; Unit:**
	Any digit	Sensor calibration unit not relevant to the certification
ll=105		**Process connection, Sealing Surface:**
	AA to ZZ	Standard industrial process connection: threaded, flange
mmm=110		**Process Connection:**
	AAA to ZZZ	Standard industrial process connection: flanges, threaded , flushmount diaphragm seal, 316L, Alloy C , plastic coated
n=170		**Membrane material**
	Any digit	Not relevant to the certification
o=180		**Fill fluid of the sensor part**
	Any digit	Not relevant to the certification
pp=500		**Operation Language Display:**
	Any digit	Not relevant to the certification
rr=540		**>>Application Package:**
	Any digit	Heartbeat Verification + Monitoring, special versions of software or microchip related settings, not relevant for the certification
ss=545		**>Reference Accuracy:**
	Any digit	Not relevant for the certification
tt=550		**>Calibration:**
	Any digit	calibration certificate; not relevant for the certification
uu=570		**>>Service:**
	Any digit	Software related adjustments, not relevant for the certification
vv=580		**>>Test, Certificate, Declaration:**
	Any digit	material certificates wetted metallic parts, pressure test, leakage test, PMI-test; not covered by certification
ww=590		**>>Additional Approval:**
	Any digit	additional approvals, no influence to explosion protection; e.g.: SIL, WHG, Ship building, drinking water, CRN
zz=620		**>>Accessory Enclosed:**
	QA to QZ	Weld-in adapter, flanges different sizes

	Rx	Process adapter different types
	Sx	Pipe connection different types
	TB	Plug connector M12, IP69
	TC	Plug connector M12 90deg, IP69
	TD	Plug connector M12 90deg, IP69, 5m cable, union nut, 316L
	TE	Plug connector M12 100deg, IP67, 5m cable, union nut, Cu Sn/Ni
αα=850		**>Firmware Version**
	Any digit	Hart, not relevant to the certification. Related to different versions of the microchip.
γγ =895		**>>Marking:**
	Any digit	Tagging, not relevant to the certification

IS Class I, Division 1, Groups A, B, C, D, T4…T1
Class II, Division 1, Groups F, G; Class III, T 135 °C
Class I, Zone 0, AEx ia IIC T4…T1 Ga
Zone 20, AEx ia IIIB T 135 °C Da

NIFW Class I, Division 2, Group A, B, C, D, T4…T1
Class I, Zone 2, AEx ic IIC T4…T1 Gc
Zone 22, AEx ic IIIB T 135°C Dc

Model(s)	Rated Voltage (VDC)	Rated Current	Enclosure Type Rating	Enclosure IP Rating
Pressure Sensor, Model Cerabar PMP43	12...30	4...20 mA	4X, 6P	66, 68, 69

PMP43-aa bb c d e f g hh i k ll mmm n o + pp rr ss tt uu vv ww xx zz αα γγ		
aa=10		**Approval:**
	CB	CSA C/US IS Cl.I,II,III Div.1 Gr.A-D,F,G T4, AEx ia IIC T4, AEx ia IIIB
	CE	CSA C/US Cl.I Div.2 Gr.A-D T4 (NIFW), AEx ic IIC T4
bb=20		**Output:**
	AA	2-wire 4-20mA
	BA	2-wire 4-20mA HART
c=30		**Display; Operation:**
	C	LED signaling with push button
	D	LED signaling with push button + Bluetooth
	G	Colored display
	H	Colored display + Bluetooth
	J	Colored display with touch control
	K	Colored display with touch control + Bluetooth
d=40		**Housing; Material:**

	F	Compact; 316L
e=50		**Electrical Connection:**
	N	Plug M12, IP66/68/69 NEMA Type 4X/6P
f=55		**Pressure Type:**
	6	Gauge
	8	Absolute
		Application
g=60	A	Process temperature max 100 °C/212 °F
	B	Process temperature max 130 °C /266 °F, 150 °C /302 °F max 1h
	C	Process temperature max 150 °C /302 °F
	D	Process temperature max 200 °C /392 °F
	E	Advanced condensation resistance
hh=75		**Sensor Range**
	Any digit	Sensor pressure, not assessed by the certification
i=80		**Surface Refinement:**
	A	Standard
	E	Hygienic Ra<0.38µm/15µin, electro-polished
k=90		**Calibration; Unit:**
	Any digit	Sensor calibration unit not relevant to the certification
ll=105		**Process connection, Sealing Surface:**
	AA to ZZ	Standard industrial process connection: threaded, flange
mmm=110		**Process Connection:**
	AAA to ZZZ	Standard industrial process connection: flanges, threaded , flushmount diaphragm seal, 316L, Alloy C , plastic coated
n=170		**Membrane material**
	Any digit	Not relevant to the certification
o=180		**Fill fluid of the sensor part**
	Any digit	Not relevant to the certification
pp=500		**Operation Language Display:**
	Any digit	Not relevant to the certification
rr=540		**>>Application Package:**
	Any digit	Heartbeat Verification + Monitoring, special versions of software or microchip related settings, not relevant for the certification
ss=545		**>Reference Accuracy:**
	Any digit	Not relevant for the certification

tt=550		**>Calibration:**
	Any digit	calibration certificate; not relevant for the certification
uu=570		**>>Service:**
	Any digit	Software related adjustments, not relevant for the certification
vv=580		**>>Test, Certificate, Declaration:**
	Any digit	material certificates wetted metallic parts, pressure test, leakage test, PMI-test; not covered by certification
ww=590		**>>Additional Approval:**
	Any digit	additional approvals, no influence to explosion protection; e.g.: SIL, WHG, Ship building, drinking water, CRN
zz=620		**>>Accessory Enclosed:**
	QA to QZ	Weld-in adapter, flanges different sizes
	Rx	Process adapter different types
	Sx	Pipe connection different types
	TB	Plug connector M12, IP69
	TC	Plug connector M12 90deg, IP69
	TD	Plug connector M12 90deg, IP69, 5m cable, union nut, 316L
	TE	Plug connector M12 100deg, IP67, 5m cable, union nut, Cu Sn/Ni
αα=850		**>Firmware Version**
	Any digit	Hart, not relevant to the certification. Related to different versions of the microchip.
γγ =895		**>>Marking:**
	Any digit	Tagging, not relevant to the certification

APPLICABLE REQUIREMENTS

CAN/CSA-C22.2 No. 60079-0:19 (R2024) - Explosive atmospheres — Part 0: Equipment — General requirements

CAN/CSA-C22.2 No. 60079-11:14 (R2023) - Explosive atmospheres — Part 11: Equipment protection by intrinsic safety “i”

ANSI/UL 60079-0-2020 (Seventh Edition) - Explosive Atmospheres - Part 0: Equipment - General Requirements

ANSI/UL 60079-11-2018 (R2023) Sixth Edition - Explosive Atmospheres - Part 11: Equipment Protection by Intrinsic Safety 'i'

FM 3600:2022 - Electrical Equipment for Use in Hazardous (Classified) Locations - General Requirements

FM 3610:2021 - Intrinsically Safe Apparatus and Associated Apparatus for Use in Class I, II and III, Division 1, Hazardous (Classified) Locations

Certificate: 80191571 **Master Contract**: 151079

Project: 80191571 **Date Issued**: 2025-05-19

CSA C22.2 No. 213-17 -Third Edition - Nonincendive Electrical Equipment for Use in Class I and II, Division 2 and Class III, Divisions 1 and 2 Hazardous (Classified Locations)

ANSI/UL 121201:2017 - Ninth Edition - Including Revisions Through April 1, 2021 - UL Standard for Safety Nonincendive Electrical Equipment for Use in Class I and II, Division 2 and Class III, Divisions 1 and 2 Hazardous (Classified) Locations

Conditions Of Acceptability

Conditions of Acceptability (specific conditions of use):

- The device may only be powered by a power supply unit with a limited energy electric circuit in accordance with CSA/UL/EN/IEC 61010-1:2010 chapter 6.3.1/6.3.2 and 9.4 or class 2 according to CSA 223/UL 1310.
- The equipment has only been tested for electrical safety. No evaluations of functional safety or performance characteristics have been conducted.
- The maximum ambient temperature for Class I, Group A, B, C D or group II, temperature class T4 process temperature Tp, are de-rated in tables provided in Safety Instructions.
- Ambient and process temperature range for Class II and Class III, or group III is from -40 °C to +70 °C.
- In applications where the process temperature exceeds the maximum surface temperature limits of the required maximum surface temperature, the hot surface ignition hazard at the process connecting parts of the device shall be addressed.
- To avoid electrostatic charging in explosive atmospheres, avoid rubbing of the non-metallic surfaces using electrostatic generating materials. Do not use the device in applications with moving dust atmosphere causing electrostatic charging.
- The device shall use a power supply that is galvanically isolated from earth

Markings

MARKINGS

The manufacturer is required to apply the following markings:

- Products shall be marked with the markings specified by the particular product standard.
- Products certified for Canada shall have all Caution and Warning markings in both English and French.

Additional bilingual markings not covered by the product standard(s) may be required by the Authorities Having Jurisdiction. It is the responsibility of the manufacturer to provide and apply these additional markings, where applicable, in accordance with the requirements of those authorities.

The products listed are eligible to bear the CSA Mark shown with adjacent indicators 'C' and 'US' for Canada and US (indicating that products have been manufactured to the requirements of both Canadian and U.S. Standards) or with adjacent indicator 'US' for US only or without either indicator for Canada only.

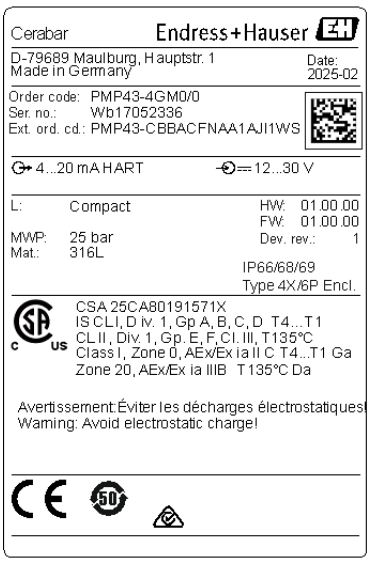
The following markings are laser marked on enclosure material:

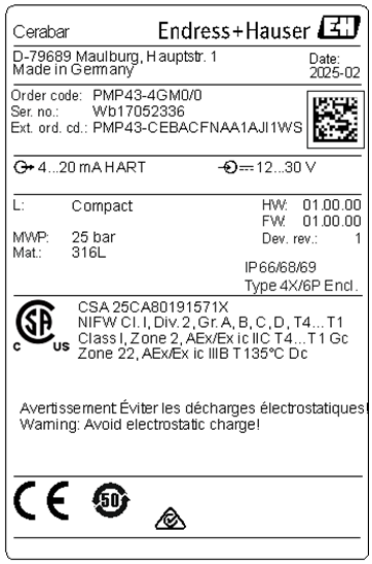
- Manufacturer’s name: Endress+Hauser SE+Co. KG or CSA Master Contract Number “151079”, adjacent to the CSA Mark in lieu of manufacturer’s name.
- Model designation: As specified in the PRODUCTS section, above.
- Electrical ratings: As specified in the PRODUCTS section, above.
- Manufacturing date, or serial number, traceable to year and month of manufacture.
- Enclosure ratings: As specified in the PRODUCTS section, above.
- The CSA Mark, as shown on the Certificate of Conformity.
- The designation “CSA 25CA80191571X”
- Hazardous Location designation: As specified in the PRODUCTS section, above. The word “Class” may be abbreviated “CL”, the word “Division” may be abbreviated “DIV”, and the word “Groups” may be abbreviated “GRP” or “GP”.
- Method of Protection markings (Ex – markings): As specified in the PRODUCTS section, above. The word “Class” may be

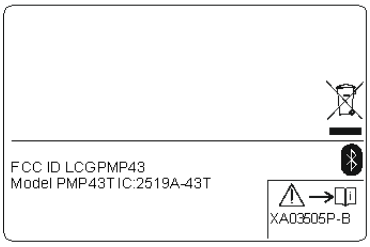
abbreviated “CL”, the word “Zone” may be abbreviated “ZN”

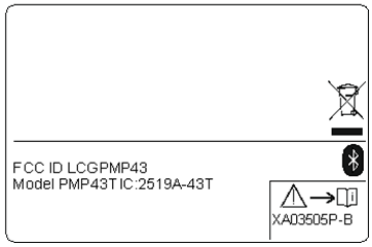
- Temperature code: As specified in the PRODUCTS section, above.
- The manufacturing location shall be identified if the equipment can be produced in more than one facility.
- The following words, or suitable equivalent, in English and French:
  - “WARNING – POTENTIAL STATIC HAZARD. CLEAN ONLY WITH A WATER WETTED CLOTH” and “ATTENTION – RISQUE D’ÉLECTRICITÉ STATIQUE POTENTIEL. NETTOYER SEULEMENT AVEC UN LINGE IMBIBÉ D’EAU”
  - “Install per drawing XA03505P-B.”

Example of marking label is shown below:









Certificate: 80191571 **Master Contract**: 151079

Project: 80191571 **Date Issued**: 2025-05-19

Notes:

Products certified under Class(es) C225804 have been certified under CSA's ISO/IEC 17065 accreditation with the Standards Council of Canada (SCC). www.scc.ca

SCC Accredited CB-P/S OCPS Accrédité CCN TM

Supplement to Certificate of Compliance

Certificate: 80191571 **Master Contract:** 151079

The products listed, including the latest revision described below, are eligible to be marked in accordance with the referenced Certificate.

Product Certification History

Project	Date	Description
80191571	2025-05-19	Original cCSAus certification of Compact Line pressure transmitter, model Cerabar PMP43, in accordance with intrinsic safety and Non-Incendive Field Wiring Apparatus C2258, based on CSA IECEx report number R80191573A and based on IECEx variation report number R80245081A.