



# Certificate of Compliance

**Certificate:** 80150806

**Master Contract:** 267726

**Project:** 80150806

**Date Issued:** 2023-07-28

**Issued to:** Prignitz Mikrosystemtechnik GmbH  
Margarethenstrasse 61  
Wittenberge,  
19322  
GERMANY

**Attention:** Holger Piefke

*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*



**Issued by:** *Michel Dolstra*  
Michel Dolstra

## **PRODUCTS**

**CLASS 2258 02** - PROCESS CONTROL EQUIPMENT-For Hazardous Locations-

**CLASS 2258 82** - PROCESS CONTROL EQUIPMENT-For Hazardous Locations - Certified to US Standards

**Ex db IIC T5 Gb**

**Ex tb IIIC T100°C Db**

**Class I, Zone 1 AEx db IIC T5 Gb**

**Zone 21 AEx tb IIIC T100°C Db**

**Class I Division 1, Groups A, B, C, D, T5**

**Class II Division 1, Groups E, F, G, T100°C**



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Pressure transducer, model **PMP-X122.04-ExD-XX-(XX..XX)-XX-X-XXS-XX-XXX\***

where the nomenclature is as follows:

<b>PMP-X122.04</b>	<b>ExD</b>	<b>XX</b>	<b>(XX..XX)</b>	<b>XX</b>	<b>X</b>	<b>XXS</b>	<b>XX</b>	<b>XXX*</b>
								<b>Customized Article number</b>
								Standard length 2/4/10/15 ft. or <b>CABLE LENGTH</b> 0,6/1,2/3/4,5m
						<b>PROCESS CONNECTIONS</b>		07 = 1/2-14 NPT 09 = 1/4 NPT other on request
					<b>TYPE OF PRESSURE</b>	<b>SNUBBER</b>		S = with snubber
								S = Sealed reference
					e.g. <b>UNIT</b>			bar, kPa, MPa, psi
					<b>PRESSURE RANGES</b>			e.g. (0...400), (0...1500), (-1...100)
					I2 = 4...20Ma 3L UR = Ratiometric 0U5 = 0...5V 1U5 = 1...5V U10 = 0...10V			
		<b>ELECTRICAL OUTPUT</b>						
		<b>TYPE</b>	ExD = Explosion Proof Pressure Transducers					
			S = standard ASSP based					
<b>FAMILY</b>			C = controller based					

\*Special configuration at the end of the order text e.g., pressure ports radius 10mm



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Pressure and/or temperature transducers;

Designator	Type of pressure transducer / output signal	Nominal Pressure	Maximum Working Pressure	Supply Voltage
PMP-S122.04-ExD-I2	ASSP based / 4 ... 20 mA two wire	10 to 900 bar	1000 bar	10-27 V DC
PMP-S122.04-ExD-0U5	ASSP based / 0 ... 5 V voltage	10 to 900 bar	1000 bar	6-27 V DC
PMP-S122.04-ExD-1U5	ASSP based / 1 ... 5 V voltage	10 to 900 bar	1000 bar	6-27 V DC
PMP-S122.04-ExD-0U6	ASSP based / 0 ... 6 V voltage	10 to 900 bar	1000 bar	8-27 V DC
PMP-S122.04-ExD-1U6	ASSP based / 1... 6 V voltage	10 to 900 bar	1000 bar	8-27 V DC
PMP-S122.04-ExD-U10	ASSP based / 0... 10 V voltage	10 to 900 bar	1000 bar	12-27 V DC
PMP-S122.04-ExD-UR	ASSP based / ratiometric	10 to 900 bar	1000 bar	5 V DC
PMP-C122.04-ExD-I2	Controller based / 4 ... 20 mA two wire	10 to 900 bar	1000 bar	10-27 V DC
PMP-C122.04-ExD-0U5	Controller based / 0 ... 5 V voltage	10 to 900 bar	1000 bar	6-27 V DC
PMP-C122.04-ExD-1U5	Controller based / 1 ... 5 V voltage	10 to 900 bar	1000 bar	6-27 V DC
PMP-C122.04-ExD-0U6	Controller based / 0 ... 6 V voltage	10 to 900 bar	1000 bar	8-27 V DC
PMP-C122.04-ExD-1U6	Controller based / 1... 6 V voltage	10 to 900 bar	1000 bar	8-27 V DC
PMP-C122.04-ExD-U10	Controller based / 0... 10 V voltage	10 to 900 bar	1000 bar	12-27 V DC
PMP-C122.04-ExD-UR	Controller based / ratiometric	10 to 900 bar	1000 bar	5 V DC

**Ambient temperature:**

-40 °C to 85 °C (-40 °F ... 185 °F)

*Notes:*

- I. *The maximum working pressure of the transmitter is 1000 bar. It depends on the used pressure cells.*

**Conditions of Acceptability:**

To fulfil the requirements of the present standard the following tests and considerations must be fulfilled in combination with the end-use product.

1. The device may only be powered by a power supply unit with a limited energy electric circuit max. 27 Vdc output in accordance with CAN/CSA-C22.2 No. 61010-1-12 / UL Std. No. 61010-1 (3rd Edition) chapter 6.3.1/6.3.2 and 9.4 or class 2 according to CSA 223/UL 1310.
2. Equipment is only to be installed by trained personnel in accordance to the installation, set-up, operation and maintenance of comparable devices and certified as being capable of such work.
3. Leakage and rupture from fluids under pressure of the device process thread mounted in end application, needs to be tested in end use. Corresponding impact test may also be applied in end use.
4. The cable outlet shall be connected to a conduit installation; Information is contained in the installation manual.



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### APPLICABLE REQUIREMENTS

CSA C22.2 No. 25-17	Enclosures for use in Class II, Division 1, Groups E, F, and G hazardous locations.
CAN/CSA C22.2 No. 30:20	Explosion-proof equipment.
CAN/CSA C22.2 No. 60079-0:19	Explosive Atmospheres - Part 0: Equipment - General requirements.
CAN/CSA C22.2 No. 60079-1:16	Explosive atmospheres — Part 1: Equipment protection by flameproof enclosures “d” - Third Edition.
CAN/CSA C22.2 No. 60079-31:15	Explosive atmospheres — Part 31: Equipment dust ignition protection by enclosure “t” - Second Edition.
FM 3600 (January 2022)	Electrical Equipment for Use in Hazardous (Classified) Locations –General Requirements.
FM 3615 (January 2022)	Explosionproof Electrical Equipment –General Requirements.
FM 3616 (January 2022)	Dust-Ignitionproof Electrical Equipment – General Requirements.
ANSI/UL 60079-0-2020 Seventh Edition	Electrical Apparatus for Explosive Gas Atmospheres - Part 0: General Requirements.
ANSI/UL 60079-1-2020 Seventh Edition	Explosive atmospheres — Part 1: Equipment protection by type of protection “d”.
ANSI/UL 60079-31-2015 Second Edition	Explosive atmospheres — Part 31: Equipment protection by type of protection “t”.
CAN/CSA C22.2 No. 61010-1-12 + UPD1:2015, UPD2:2016, AMD 1-18	Safety Requirements for Electrical Equipment for Measurement, Control, and Laboratory Use, Part 1: General Requirements.
ANSI/UL 61010-1-2018 Third Edition	Standard for Safety Electrical Equipment For Measurement, Control, and Laboratory Use; Part 1: General Requirements.
CSA C22.2 No. 94.2:20 3rd Edition Rev October 2020	Enclosures for electrical equipment, environmental considerations.
ANSI/UL 50E, 3rd Edition dated October 15, 2020	Enclosures for Electrical Equipment, Environmental Considerations



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## **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.

Markings are on laser printed on the enclosure. The following marking details appear:

- CSA Monogram with C-US indicator.
- Submitter Identification with master contact number
- Certificate reference CSA23CA80150806X
- Model Number
- Serial Number, Date Code or Month and Year of Manufacture
- Electrical Ratings as per product listing
- Hazardous Location Designation as per product listing
- Ambient temperature range as per product listing
- Maximum working pressure
- The label is laser engraved directly on the equipment
- Enclosure type 3R rating
- FACTORY SEALED, CONDUIT SEAL NOT REQUIRED



## *Supplement to Certificate of Compliance*

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

### **Product Certification History**

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<b>Project</b>	<b>Date</b>	<b>Description</b>
80150806	2023-07-28	Original cCSAus certification of Class I, Division 1 explosionproof, or Zone 1 flameproof “db” or Class II, Division 1 dust ignitionproof, or Zone 21 dust protection by enclosure “tb” protected pressure and/or temperature transducers Series SPT-ExD, CIT-ExD, STT-ExD, CTT-ExD, SPTT-ExD and CPTT-ExD.