



# Certificate of Compliance

**Certificate:** 80150806 **Master Contract:** 267726  
**Project:** 80201006 **Date Issued:** 2024-07-04  
**Issued to:** Prignitz Mikrosystemtechnik GmbH  
Margarethenstrasse 61  
Wittenberge, Brandenburg 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:** *Rahul Arekar*  
Rahul Arekar

## PRODUCTS

Class 2258 02 PROCESS CONTROL EQUIPMENT - For Hazardous Locations  
Class 2258 82 PROCESS CONTROL EQUIPMENT - For Hazardous Locations - Certified to US Standards

### **Pressure Transducer**

Model(s)
PMP-X122.04-ExD-XX-(XX..XX)-XX-X-XX X-XX-XXX*

where the nomenclature is as follows:

PMP-X122.04	ExD	XX	(XX..XX)	XX	X	XX X	XX	XXX*
<b>FAMILY</b>	<b>TYPE</b>	<b>ELECTRICAL OUTPUT</b>	<b>PRESSURE RANGES</b>	<b>UNIT</b>	<b>TYPE OF PRESSURE</b>	<b>XX- PROCESS CONNECTIONS</b> 07 = 1/2-14 NPT 09 = 1/4 NPT	<b>CABLE LENGIH</b>	<b>Customized Article number</b>



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					34 = 7/16"-20 UNF 35 = 9/16"-18 UNF 36 = 1/2"-14 NPT F 37 = 9/16"-18 UNF F Autoclave port 38 = G 1/4" DIN 3852-2 Other on request	Standard length 2/4/10/15 ft. or 0,6/1,2/3/4,5m
						<b>X</b> S = with snubber N = No snubber C = Customized pressure channel with a diameter of 11 mm
					S = Sealed reference	
					01 = bar 10 = kPa 14 = MPa 16 = psi	
					e.g. (0...400), (0...1500), (-1...100)	
					I2 = 4...20 mA 2L UR = Ratiometric 0U5 = 0...5V 1U5 = 1...5V 0U6 = 0...6V 1U6 = 1...6 V 0U10 = 0...10V	
					ExD = Explosion Proof Pressure Transducers	
					S = standard ASSP based C = controller based	

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

**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 fulfill 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.



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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.

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

**Pressure transducer. Type of pressure transducer / output signal: ASSP based / 4 ... 20 mA two wire**

Model(s)	Pressure	Max. Working Pressure (Bar)	Supply Voltage (VDC)
PMP-S122.04-ExD-12	10 to 900 bar (Nominal)	1000	10-27

**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 fulfill 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.
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4. The cable outlet shall be connected to a conduit installation; Information is contained in the installation manual.

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. Type of pressure transducer / output signal: ASSP based / 0 ... 5 V voltage**

Model(s)	Pressure	Max. Working Pressure (Bar)	Supply Voltage (VDC)
PMP-S122.04-ExD-0U5	10 to 900 bar (Nominal)	1000	6-27

**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 fulfill 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.
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4. The cable outlet shall be connected to a conduit installation; Information is contained in the installation manual.

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

**Pressure transducer. Type of pressure transducer / output signal: ASSP based / 1 ... 5 V voltage**

Model(s)	Pressure	Max. Working Pressure (Bar)	Supply Voltage (VDC)
PMP-S122.04-ExD-1U5	10 to 900 bar (Nominal)	1000	6-27

**Ambient temperature:**

-40 °C to 85 °C (-40 °F ... 185 °F)



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4. The cable outlet shall be connected to a conduit installation; Information is contained in the installation manual.

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

**Pressure transducer. Type of pressure transducer / output signal: ASSP based / 0 ... 6 V voltage**

Model(s)	Pressure	Max. Working Pressure (Bar)	Supply Voltage (VDC)
PMP-S122.04-ExD-0U6	10 to 900 bar (Nominal)	1000	8-27

**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 fulfill 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.
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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.

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

**Pressure transducer. Type of pressure transducer / output signal: ASSP based / 1... 6 V voltage**

Model(s)	Pressure	Max. Working Pressure (Bar)	Supply Voltage (VDC)
PMP-S122.04-ExD-1U6	10 to 900 bar (Nominal)	1000	8-27

**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.

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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.

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



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

**Pressure transducer. Type of pressure transducer / output signal: ASSP based / 0... 10 V voltage**

Model(s)	Pressure	Max. Working Pressure (Bar)	Supply Voltage (VDC)
PMP-S122.04-ExD-0U10	10 to 900 bar (Nominal)	1000	12-27

**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:**

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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.

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

**Pressure transducer. Type of pressure transducer / output signal: ASSP based / ratiometric**

Model(s)	Pressure	Max. Working Pressure (Bar)	Supply Voltage (VDC)
PMP-S122.04-ExD-UR	10 to 900 bar (Nominal)	1000	5

**Ambient temperature:**

-40 °C to 85 °C (-40 °F ... 185 °F)



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4. The cable outlet shall be connected to a conduit installation; Information is contained in the installation manual.

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

**Pressure transducer. Type of pressure transducer / output signal: Controller based / 4 ... 20 mA two wire**

Model(s)	Pressure	Max. Working Pressure (Bar)	Supply Voltage (VDC)
PMP-C122.04-ExD-I2	10 to 900 bar (Nominal)	1000	10-27

**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:**

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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.

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

**Pressure transducer. Type of pressure transducer / output signal: Controller based / 1 ... 5 V voltage**

Model(s)	Pressure	Max. Working Pressure (Bar)	Supply Voltage (VDC)
PMP-C122.04-ExD-1U5	10 to 900 bar (Nominal)	1000	6-27

**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:**

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4. The cable outlet shall be connected to a conduit installation; Information is contained in the installation manual.

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

**Pressure transducer. Type of pressure transducer / output signal: Controller based / 0 ... 6 V voltage**



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Model(s)	Pressure	Max. Working Pressure (Bar)	Supply Voltage (VDC)
PMP-C122.04-ExD-0U6	10 to 900 bar (Nominal)	1000	8-27

**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.

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4. The cable outlet shall be connected to a conduit installation; Information is contained in the installation manual.

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

**Pressure transducer. Type of pressure transducer / output signal: Controller based / 1... 6 V voltage**

Model(s)	Pressure	Max. Working Pressure (Bar)	Supply Voltage (VDC)
PMP-C122.04-ExD-1U6	10 to 900 bar (Nominal)	1000	8-27

**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:**

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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

**Pressure transducer. Type of pressure transducer / output signal: Controller based / 0... 10 V voltage**

Model(s)	Pressure	Max. Working Pressure (Bar)	Supply Voltage (VDC)
PMP-C122.04-ExD-0U10	10 to 900 bar (Nominal)	1000	12-27

**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.

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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

**Pressure transducer. Type of pressure transducer / output signal: Controller based / ratiometric**

Model(s)	Pressure	Max. Working Pressure (Bar)	Supply Voltage (VDC)
PMP-C122.04-ExD-UR	10 to 900 bar (Nominal)	1000	5

**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.

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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

**Pressure transducers. Type of pressure transducer / output signal: Controller based / 0 ... 5 V voltage**

Model(s)	Pressure (Bar)	Max. Working Pressure (Bar)	Supply Voltage (VDC)
PMP-C122.04-ExD-0U5	10 to 900 (Nominal)	1000	6-27



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### **APPLICABLE REQUIREMENTS**

CSA C22.2 No. 25-17 (Fourth Edition) - Enclosures for use in Class II, Division 1, Groups E, F, and G hazardous locations

CSA C22.2 No. 30:20+Upd.1+Errata:2020 (Fourth edition) - Explosion-proof equipment - Fourth Edition; Errata: July 2020; Update No. 1: March 2023

CSA C22.2 No. 60079-0:19 (Fourth Edition) - Explosive atmospheres — Part 0: Equipment — General requirements

CSA C22.2 No. 60079-1:16 (Third Edition) - Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures “d”

CAN/CSA-C22.2 No 60079-31:15(Second Edition) - Explosive atmospheres — Part 31: Equipment dust ignition protection by enclosure “t” - Second Edition

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

FM 3615 : 2022 - Explosionproof Electrical Equipment – General Requirements

FM 3616:2022 - Dust-Ignitionproof Electrical Equipment General Requirements

ANSI/UL 60079-1 (Seventh Edition; Reprint with revisions through and including JANUARY 23, 2020) - UL Standard for Safety Explosive Atmospheres – Part 1: Equipment Protection by Flameproof Enclosures “d”

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

CSA C22.2 No. 61010-1-12, UPD1:2015, UPD2:2016, AMD1:2018 - Safety requirements for electrical equipment for measurement, control, and laboratory use — Part 1: General requirements

UL 61010-1 3rd ed (Rev. Nov 21, 2018) - UL Standard for Safety Electrical Equipment For Measurement, Control, and Laboratory



**Certificate:** 80150806

**Master Contract:** 267726

**Project:** 80201006

**Date Issued:** 2024-07-04

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Use; Part 1: General Requirements - Third Edition; Including Revisions through November 21, 2018

CSA C22.2 No. 94.2:20 (Third Edition) - Enclosures for electrical equipment, environmental considerations

UL 50E (Third Edition) - UL Standard for Safety Enclosures for Electrical Equipment, Environmental Considerations



**Certificate:** 80150806

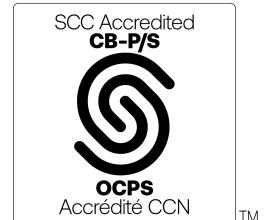
**Project:** 80201006

**Master Contract:** 267726

**Date Issued:** 2024-07-04

Notes:

Products certified under Class(es) C225802 have been certified under CSA's ISO/IEC 17065 accreditation with the Standards Council of Canada (SCC). [www.scc.ca](http://www.scc.ca)





## *Supplement to Certificate of Compliance*

**Certificate:** 80150806

**Master Contract:** 267726

*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>
80201006	2024-07-04	Update to Report 80150806 for below: 1. Addition of alternative thread sizes for connection. 2. Modifications of the drawings 70010262, 70010263, and 85300010. 3. Modifications in the model code.
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.