



Certificate of Compliance

Certificate: 70080999 **Master Contract:** 267726
Project: 80205548 **Date Issued:** 2024-07-16
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:
John Kusi Amoateng
John Kusi Amoateng

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

With flange plug IS Class I, Division 1, Groups A, B, C and D T4Ex ia IIC T4 Ga, Class I Zone 0 AEx ia IIC T4 Ga With other plugs IS Class I, Division 1, Groups A, B, C and D T4Ex ia IIC T4 Gb Class I Zone 1 AEx ia IIC T4 Gb Or IS Class I, Division 1, Groups C and D T4Ex ia IIB T4 Ga Class I Zone 0 AEx ia IIB T4 Ga

Current Models

Model(s)	Ambient Temp (°C)
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<p>SPT-EXi Pressure transducers, intrinsically safe, output 4...20 mA, 10 - 27 Vdc alternative description: PMP-S1xx-Exi.10-I2-xyy (general media compatibility) PMP-S1xx-Exi.1H-I2-xyy (usable for hydrogen media),</p> <p>SPT-EXi-FH Pressure transducers, intrinsically safe, output 4...20 mA, 10 - 27 Vdc alternative description: PMP-S1xx-Exi.10-I2-xyy-90 (general media compatibility) PMP-S1xx-Exi.1H-I2-xyy-90 (usable for hydrogen media),</p> <p>CIT-EXi Pressure transducers, intrinsically safe, output 4...20 mA, 10 - 27 Vdc alternative description: PMP-C1xx-Exi.10-I2-xyy (general media compatibility) PMP-C1xx-Exi.1H-I2-xyy (usable for hydrogen media),</p> <p>CIT-EXi-FH Pressure transducers, intrinsically safe, output 4...20 mA, 10 - 27 Vdc alternative description: PMP-C1xx-Exi.10-I2-xyy-90 (general media compatibility) PMP-C1xx-Exi.1H-I2-xyy-90 (usable for hydrogen media),</p> <p>PS-EXi Level probes, intrinsically safe, output 4...20 mA, 10 - 27 Vdc alternative description: PML-S1xx-Exi.10-I2-xyy (general media compatibility) PMP-S1xx-Exi.1H-I2-xyy (usable for hydrogen media),</p> <p>CPS-EXi Level probes, intrinsically safe, output 4...20 mA, 10 - 27 Vdc alternative description: PML-C1xx-Exi.10-xyy (general media compatibility) PMP-C1xx-Exi.1H-xyy (usable for hydrogen media)</p>	<p>-40 ≤ Tamb ≤ +85</p>
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Intrinsically safe, $-40\text{ °C} \leq T_{amb} \leq +85\text{ °C}$, process medium temperature range:
 -40 °C to $+100\text{ °C}$, $U_i = 27\text{ V}$, $I_i = 125\text{ mA}$, $P_i = 0.85\text{ W}$, $C_i = 5\text{ nF}$, $L_i = 0$

High Voltage Models

Model(s)	Ambient Temp (°C)
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<p>SPTU-EXi Pressure transducers, intrinsically safe, output 0 ... max. 10 V alternative description: PMP-S1xx-Exi.10-xUy-xyy (general media compatibility) PMP-S1xx-Exi.1H-xUy-xyy (usable for hydrogen media),</p> <p>SPTU-EXi-FH Pressure transducers, intrinsically safe, output 0 ... max. 10 V alternative description: PMP-S1xx-Exi.10-xUy-xyy-90 (general media compatibility) PMP-S1xx-Exi.1H-xUy-xyy -90(CSAusable for hydrogen media) ('90' is the index for the connection type, here: Field Housing'),</p> <p>CITU-EXi Pressure transducers, intrinsically safe, output 0 ... max. 10 V alternative description: PMP-C1xx-Exi.10-xUy-xyy (general media compatibility) PMP-C1xx-Exi.1H-xUy-xyy (usable for hydrogen media),</p> <p>CITU-EXi-FH Pressure transducers, intrinsically safe, output 0 ... max. 10 V alternative description: PMP-C1xx-Exi.10-xUy-xyy-90 (general media compatibility) PMP-C1xx-Exi.1H-xUy-xyy-90 (usable for hydrogen media),</p> <p>PSU-EXi Level probes, intrinsically safe, output 0 ... max. 10 V alternative description: PML-S1xx-Exi.10-xUy-xyy (general media compatibility) PML-S1xx-Exi.1H-xUy-xyy (usable for hydrogen media),</p> <p>CPSU-EXi Level probes, intrinsically safe, output 0 ... max. 10 V alternative description: PML-C1xx-Exi.10-xUy-xyy (general media compatibility) PML-C1xx-Exi.1H-xUy-xyy (usable for hydrogen media)</p>	<p>-40 ≤ Tamb ≤ +85</p>
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Intrinsically safe, $-40\text{ °C} \leq T_{amb} \leq +85\text{ °C}$, process medium temperature range: -40 °C to $+100\text{ °C}$, $U_i = 27\text{ V}$, $I_i = 125\text{ mA}$, $P_i = 0.85\text{ W}$, $C_i = 12.1\text{ nF}$, $L_i = 0$

Low Voltage Models

Model(s)	Ambient Temp (°C)
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<p>SPTV-EXi Pressure transducers, intrinsically safe, output 0... max. 5 V alternative description: PMP-S1xx-Exi.10-xUy-xyxy (general media compatibility) PMP-S1xx-Exi.1H-xUy-xyxy (usable for media hydrogen),</p> <p>SPTV-EXi-FH Pressure transducers, intrinsically safe, output 0... max. 5 V alternative description: PMP-S1xx-Exi.10-xUy-xyxy-90 (general media compatibility) PMP-S1xx-Exi.1H-xUy-xyxy-90 (usable for media hydrogen),</p> <p>CITV-EXi Pressure transducers, intrinsically safe, output 0... max. 5 V alternative description: PMP-C1xx-Exi.10-xUy-xyxy (general media compatibility) PMP-C1xx-Exi.1H-xUy-xyxy (usable for media hydrogen),</p> <p>CITV-EXi-FH Pressure transducers, intrinsically safe, output 0... max. 5 V alternative description: PMP-C1xx-Exi.10-xUy-xyxy-90 (general media compatibility) PMP-C1xx-Exi.1H-xUy-xyxy-90 (usable for media hydrogen),</p> <p>PSV-EXi Level probes, intrinsically safe, output 0... max. 5 V alternative description: PML-S1xx-Exi.10-xUy-xyxy (general media compatibility) PML-S1xx-Exi.1H-xUy-xyxy (usable for media hydrogen),</p> <p>CPSV-EXi alternative description: PML-C1xx-Exi.10-xUy-xyxy (general media compatibility) PML-C1xx-Exi.1H-xUy-xyxy (usable for media hydrogen)</p>	<p>-40 ≤ Tamb ≤ +85</p>
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Intrinsically safe, $-40^{\circ}\text{C} \leq T_{amb} \leq +85^{\circ}\text{C}$, process medium temperature range: -40°C to $+200^{\circ}\text{C}$, $U_i = 6\text{ V}$, $I_i = 600\text{ mA}$, $P_i = 0.9\text{ W}$, $C_i = 9.27\text{ }\mu\text{F}$, $L_i = 0$

North American entity parameters as appropriate.

IS Class I, Division 1, Groups C and D T3; Class I Zone 1 AEx ia IIB T3 Gb; Ex ia IIB T3 Gb

Current Models:

Model(s)	Ambient Temp (°C)
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<p>STT-EXi Temperature transducers, intrinsically safe, output 4...20 mA, 10 - 27 Vdc alternative description: PMT-S1xx-Exi.10-I2-xyxy (general media compatibility) PMT-S1xx-Exi.1H-I2-xyxy (usable for media hydrogen),</p> <p>CTT-EXi Temperature transducers, intrinsically safe, output 4...20 mA, 10 - 27 Vdc alternative description: PMT-D1xx-Exi.10 (general media compatibility) PMT-D1xx-Exi.1H (usable for media hydrogen)</p>	$-40 \leq T_{amb} \leq +85$
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Intrinsically safe, process medium temperature range: -40 °C to +200 °C, $U_i = 27\text{ V}$, $I_i = 125\text{ mA}$, $P_i = 0.85\text{ W}$, $C_i = 5\text{ nF}$, $L_i = 0$

High Voltage Models:

Model(s)	Ambient Temp (°C)
<p>STTU-EXi Temperature transducers, intrinsically safe, output 0 ... max 10V alternative description: PMT-S1xx-Exi.10-xUy-xyxy (general media compatibility) PMT-S1xx-Exi.1H-xUy-xyxy (usable for media hydrogen),</p> <p>STTU-EXi -FH Temperature transducers, intrinsically safe, output 0 ... max 10V alternative description: PMT-S1xx-Exi.10-xUy-xyxy-90 (general media compatibility) PMT-S1xx-Exi.1H-xUy-xyxy-90 (usable for media hydrogen),</p> <p>CTTU-EXi Temperature transducers, intrinsically safe, output 0 ... max 10 V alternative description: PMT-D1xx-Exi.10-xUy-xyxy (general media compatibility) PMT-D1xx-Exi.1H-xUy-xyxy (usable for media hydrogen),</p> <p>CTTU-EXi-FH Temperature transducers, intrinsically safe, output 0 ... max 10V alternative description: PMT-D1xx-Exi.10-xUy-xyxy-90 (general media compatibility) PMT-D1xx-Exi.1H-xUy-xyxy-90 (usable for media hydrogen)</p>	$-40 \leq T_{amb} \leq +85$

Intrinsically safe, process medium temperature range: -40 °C to +200 °C, $U_i = 27\text{ V}$, $I_i = 125\text{ mA}$, $P_i = 0.85\text{ W}$, $C_i = 12.1\text{ nF}$, $L_i = 0$

Low Voltage Models:

Model(s)	Ambient Temp (°C)



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<p>STTV-EXi Temperature transducers, intrinsically safe, output 0 ... max. 5 V alternative description: PMT-S1xx-Exi.10-xUy-xyyy (general media compatibility) PMT-S1xx-Exi.1H-xUy-xyyy (usable for media hydrogen),</p> <p>STTV-EXi-FH Temperature transducers, intrinsically safe, output 0 ... max. 5 V alternative description: PMT-S1xx-Exi.10-xUy-xyyy-90 (general media compatibility) PMT-S1xx-Exi.1H-xUy-xyyy-90 (usable for media hydrogen),</p> <p>CTTV-EXi Temperature transducers, intrinsically safe, output 0 ... max. 5 V alternative description: PMT-D1xx-Exi.10-xUy-xyyy (general media compatibility) PMT-D1xx-Exi.1H-xUy-xyyy (usable for media hydrogen),</p> <p>CTTV-EXi-FH Temperature transducers, intrinsically safe, output 0 ... max. 5 V alternative description: PMT-D1xx-Exi.10-xUy-xyyy-90 (general media compatibility) PMT-D1xx-Exi.1H-xUy-xyyy-90 (usable for media hydrogen)</p>	<p>-40 ≤ Tamb ≤ +85</p>
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Intrinsically safe, process medium temperature range: -40 °C to +200 °C, Ui = 6 V, Ii = 600 mA, Pi = 0.9 W, Ci = 9.27 µF, Li = 0

North American entity parameters as appropriate.

Conditions of Acceptability:

1. The external pins (clk, dat) on the plugs are only for calibration, and shall not be connected in the hazardous area.
2. Under certain extreme circumstances, the exposed plastic of the non-metallic plugs may generate an ignition-capable level of electrostatic charge. Therefore the equipment shall not be installed in a location where the external conditions are conducive to the build-up of electrostatic charge on the plastic surfaces. In addition, the equipment shall only be cleaned with a damp cloth. This is particularly important if the equipment is installed in a Zone 0 or Division 1 location.
3. When fitted with a TURCK P-RSF 442-* connectors the installation of the cables and receptacles shall be to TURCK control drawings NI-2.404. Only components listed are approved for the connection.

APPLICABLE REQUIREMENTS

CSA C22.2 No. 61010-1-12, UPD1:2015, UPD2:2016 - Safety Requirements for Electrical Equipment for Measurement, Control, and Laboratory Use - Part 1: General Requirements

CSA C22.2 No. 60079-0:15 (Third Edition) - Explosive atmospheres — Part 0: Equipment — General requirements

CSA C22.2 No. 60079-11:14 (Second Edition) (R2018) - Explosive atmospheres - Part 11: Equipment protection by intrinsic safety “T”

Do Not use UL 61010-1, 3rd Edition (Rev. Apr 29, 2016) - Electrical Equipment For Measurement, Control, and Laboratory Use;



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Part 1: General Requirements

ANSI/UL 60079-0 (Sixth Edition) - UL Standard for Safety - Explosive Atmospheres - Part 0: Equipment - General Requirements

ANSI/UL 60079-11-2013 - ANSI/UL 60079-11-2013 - UL Standard for Safety Explosive Atmospheres – Part 11: Equipment Protection by Intrinsic Safety "i"

UL 913(Eighth Edition) - UL Standard for Safety Intrinsically Safe Apparatus and Associated Apparatus for Use in Class I, II, and III, Division 1, Hazardous (Classified) Locations - Eighth Edition

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 appear on the product:

- CSA Monogram with C, US indicator.
- Manufacturer's name or CSA Master Contract Number adjacent to CSA mark.
- Entity parameters
- Maximum ambient temperature rating
- Model Number
- Serial Number and Year of manufacture.
- COC number : CSA 16.CA70080999
- WARNING: SUBSTITUTION OF COMPONENTS MAY IMPAIR INTRINSIC SAFETY" and AVERTISSEMENT: LA SUBSTITUTION DE COMPOSANTS PEUT COMPROMETTRE LA SÉCURITÉ INTRINSÈQUE" or equivalent.
- Terminal markings



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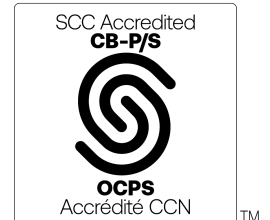
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Notes:

Products certified under Class(es) C225804, C225884 have been certified under CSA's ISO/IEC 17065 accreditation with the Standards Council of Canada (SCC). www.scc.ca





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

Project	Date	Description
80205548	2024-07-16	Update to Report 70080999 to address (FC# 268606 FIR dated October 25, 2023, alternate component and introduction of alternative model description.
70203198	2019-02-26	Update to report 70080999 to add TURCK P-RSF 442-* as an alternative connector for SPT-EXi, CIT-EXi, PS-ECi & CPS-EXi models. Update to report 70080999 to add new alternative boards as follows:
70164780	2017-12-19	1. Board B2b and Board B3b as an alternative to board B2a and board B3a for current models. 2. Board B2b as an alternative to board B2a for all models except for low voltage models. Update to report 70080999 to add new models and change the components as
70146242	2017-11-03	follows: 1. Two additional current models with FH connectors – SPT-EXi-FH and CIT-EXi-FH 2. Additional high voltage models, SPTU-EXi/SPTU-EXi-FH/CITU-EXi/CITU-EXi-FH/PSU-EXi/CPSU-EXi/STTU-EXi/CTTU-EXi with alternative interface board PCB B3a. 3. Additional low voltage models, SPTV-EXi/CITV-EXi/PSV-EXi/CPSV-EXi/STTV-EXi/CTTV-EXi with lower power signal conditioning board. 4. Change the internal pin head to SL 9 to meet the segregation requirement 70080999 25/01/2017 Original Certification.