Certificate of Compliance

Certificate: 2531731 **Master Contract:** 157123

Project: 80118970 **Date Issued:** 2022-06-28

Issued To: **Precision Digital Corporation**
233 South Street
Hopkinton, Massachusetts, 01748
United States

Attention: Scott Ewen

The products listed below are eligible to bear the CSA Mark shown

Issued by: Tim McCoy
Tim McCoy

PRODUCTS

CLASS 2258 02 - PROCESS CONTROL EQUIPMENT for Hazardous Locations

Class I, Div. 1, Groups B, C, D; Class II, Div. 1, Groups E, F, G; Class III Div 1:
Ex db IIC; Zone 21 Ex tb IIIC T90°C:

Model **PD8-865-BCD-EE-FF-GGGGGGGGG** Modbus Snooper Meters; power/input: see table;

-55 Deg. C ≤ Tamb. ≤ +60 Deg. C; Temperature Code T6;
-55 Deg. C ≤ Tamb. ≤ +65 Deg. C; Temperature Code T5;
Enclosure Type 4X & IP66 / IP68

Models	Ratings
PD8-865	85-265 Vac, 50/60 Hz, 90-265 Vdc, 15 VA max, or 12-24 Vac, 50/60 Hz, 12-36 Vdc, 10 VA max

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Part number	Code/Type reference							
PD8	**Model Prefix** (Precision Digital)							
	AAA	Meter Type						
	865	Modbus Snooper						
		B	**Power**					
		6	85-265 Vac, 90-265 Vdc					
		7	12 - 24 Vac, 12 - 36 Vdc					
			C	**Display**				
			R	Red LED				
				D	**Output**			
				2	2 Relays			
				5	2 Relays &Aout(s)			
				7	4 Relays &Aout(s)			
					EE	**Transmitter**		
					06	4-20 mA output		
					16	4-20 mA output and 24 Vdc Transmitter		
						FF	**Enclosure**	
						AL or None	Aluminum Enclosure	
						SS	Stainless Steel Enclosure	
							GGGGGGGGG	**Cosmetic Modifications**
							XXXXXXXXX	Optional alphanumeric combination to indicate a cosmetic variation, conduit entry configuration and firmware revisions.

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-Model **PD8-154-BCD-E-FF-GGGGGGGGG** and **PD8-158-BCD-E-FF-GGGGGGGGG** Alarm Annunciators; power/input: see table;
-55 Deg. C ≤ Tamb. ≤ +60 Deg. C; Temperature Code T6;
-55 Deg. C ≤ Tamb. ≤ +65 Deg. C; Temperature Code T5;
Enclosure Type 4X & IP66 / IP68

Models	**Ratings**
PD8-154, PD8-158	85-265 Vac, 50/60 Hz, 90-265 Vdc, 20 VA max, or 12-24 Vac, 50/60 Hz, 12-36 Vdc, 6 VA max

Part number	**Code/Type reference**								
PD8	**Model Prefix** (Precision Digital)								
	AAA	Meter Type							
	154	4-Point Alarm Annunciator							
	158	8-Point Alarm Annunciator							
		B	**Power**						
		6	85-265 Vac, 90-265 Vdc						
		7	12 - 24 V ac, 12 - 36 Vdc						
			C	**Display**					
			R	Red LED					
				D	**Output**				
				2	2 Relays				
					E	**Transmitter**			
					0	None			
					1	24 Vdc Transmitter			
						FF	**Enclosure**		
						AL or None	Aluminum Enclosure		
						SS	Stainless Steel Enclosure		
							GGGGGGGGG	**Cosmetic Modifications**	
							XXXXXXXXX	Optional alphanumeric combination to indicate a cosmetic variation, conduit entry configuration and firmware revisions	

Model **PD8-6AAA-BCD-EE-FFFFFFFFF** Process Meter, **PD8-7AAA-BCD-EE-FFFFFFFFF** Temperature Meter; power/input:
-55 Deg. C ≤ Tamb. ≤ +60 Deg. C; Temperature Code T6;
-55 Deg. C ≤ Tamb. ≤ +65 Deg. C; Temperature Code T5;
Enclosure Type 4X & IP66 / IP68

Models	**Ratings**
PD8-6xxx, PD8-7xxx	85-265 Vac, 50/60 Hz, 90-265 Vdc, 30 VA max, or 12 or 24 Vdc, 15 VA max

Part number	**Code/Type reference**							
PD8	**Model Prefix** (Precision Digital)							
	AAAA	Meter Type						
	6xxx	Process (voltage, current and/or pulse)						
	7xxx	Temperature (TC and RTD)						
		B	**Power**					
		6	85-265 Vac, 90-265 Vdc					
		7	12 or 24 Vdc (field selectable)					
			C	**Display**				
			R	Red LED				
			H	High intensity red LED				
				D	**Output**			
				0	None			
				1	Open collector(s)			
				2	2 Relays			
				3	Analog output(s)			
				4	4 Relays			
				5	2 Relays & Aout(s)			
				6	6 Relays & Aout(s)			
				7	4 Relays & Aout(s)			
				8	8 Relays & Aout(s)			
					EE	**Enclosure**		
					AL or None	Aluminum Enclosure		
					SS	Stainless Steel Enclosure		
						FFFFFFFFF	**Cosmetic Modifications**	
						XXXXXXXXX	Optional alphanumeric combination to indicate a cosmetic variation, conduit entry configuration and firmware revisions	

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Model **PD8-765-BCD-EE-FF-GGGGGGGGG** Temperature Meters; power/input: see table;
-55 Deg. C ≤ Tamb. ≤ +60 Deg. C; Temperature Code T6;
-55 Deg. C ≤ Tamb. ≤ +65 Deg. C; Temperature Code T5;
Enclosure Type 4X & IP66 / IP68

Models		**Ratings**
PD8-765	-6(R,X)0-00 -6(R,X)2-00	85-265 Vac, 50/60 Hz, 90-265 Vdc, 8 VA max
PD8-765	-6(R,X)0-10 -6(R,X)2-10 -6(R,X)3-00 -6(R,X)3-10 -6(R,X)3-20	85-265 Vac, 50/60 Hz, 90-265 Vdc, 20 VA max
PD8-765	-7(R,X)0-00 -7(R,X)2-00 -7(R,X)3-00	12-24 Vac, 50/60 Hz, 12-36 Vdc, 20 VA max

Part #	**Code/Type reference**								
PD8	**Model Prefix** (Precision Digital)								
	AAA	Meter Type							
	765	Temperature Meter							
		B	**Power**						
		6	85-265 Vac, 90-265 Vdc						
		7	12 - 24 Vac, 12-36 Vdc						
			C	**Display**					
			R	Red LED					
			X	Large 1.2” LED					
				D	**Output**				
				0	None				
				2	2 Relays				
				3	Analog output(s)				
				5	2 Relays & Aout(s)				
					EE	**Transmitter Power Supply**			
					00	None			
					10	24 V			
					20	2 x 24 V			
						FF	**Enclosure**		
						AL or None	Aluminum Enclosure		
						SS	Stainless Steel Enclosure		
							GGGGGGGGG	**Cosmetic Modifications**	
							XXXXXXXXX	Optional alphanumeric combination to indicate a cosmetic variation, conduit entry	

								configuration and firmware revisions

Conditions of Acceptability:

1. All power supplies below 36 V and all signal input circuits must be supplied from a Class 2 Certified power supply.
2. Model number may be followed by up to an additional 9-digit alphanumeric combination in the form "-XXXXXXXXX" to indicate a cosmetic variation, conduit entry configuration and firmware revisions.
3. A seal is required within 18 inches of the enclosure, as part of the CSA Certified Enclosure.
4. When the IME component enclosure 8117 is used in the final assembly, the ambient range is -40° to 60°C/65°C

APPLICABLE REQUIREMENTS

C22.2 No. 25-1966	Enclosures for Use in Class II, Groups E, F and G Hazardous Locations
C22.2 No. 30-M1986	Explosion-Proof Enclosures for Use in Class I Hazardous Locations
CAN/CSA-C22.2 No. 94-M91	Special Purpose Enclosures
CAN/CSA C22.2 No. 14-2018	Industrial Control Equipment
CAN/CSA-C22.2 No. 60079-0:11	Electrical apparatus for explosive gas atmospheres - Part 0: General requirements
CAN/CSA-C22.2 No. 60079-1:11	Electrical apparatus for explosive gas atmospheres - Part 1: Flameproof enclosures "d"
CAN/CSA-C22.2 No. 60079-31	Explosive atmospheres — Part 31: Equipment dust ignition protection by enclosure "t"

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, without any adjacent indicators, indicating that products have been manufactured to the requirements of Canadian Standards.

Markings for the Model PD8 Series appear on the following CSA Accepted Adhesive Nameplates:

- Type ILS-320 manufactured by Industrial Labeling Systems, White Polyester
- Type ILS-324 manufactured by Industrial Labeling Systems Metalized Polyester
- Type T/C-329 manufactured by Royal Label, White or Silver Polyester with L-23 adhesive

- Type T/C-387 manufactured by Advanced Labelworx, Inc., White or Silver Polyester with L-23 adhesive
- Type Dataplate 668 manufactured by F.B. Johnston Group,

Alternatively, markings may be found permanent on a 0.5 mm thick metal nameplate secured with fasteners.

The following marking details appear:

- Manufacturer's name: "Precision Digital Corporation", or CSA Master Contract Number "157123", adjacent to the CSA Mark in lieu of manufacturer's name.
- Model number: As specified in the PRODUCTS section, above.
- Electrical ratings: As specified in the PRODUCTS section, above.
- Ambient temperature rating: As specified in the PRODUCTS section, above.
- Manufacturing date in MMYY format, 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.
- Hazardous Location designation: As specified in the PRODUCTS section, above (may be abbreviated).
- Temperature code: As specified in the PRODUCTS section, above.
- The statement: "WARNING: DO NOT OPEN WHEN AN EXPLOSION ATMOSPHERE MAY BE PRESENT" and "AVERTISSEMENT: NE PAS OUVRIR SI UNE ATMOSPHERE D'EXPLOSION PEUT ETRE PRESENTE", or equivalent.
- Ingress Rating: As specified in the PRODUCTS section, above
- Special Purpose Enclosure Rating: As specified in the PRODUCTS section, above
- The statement: "Install conduit seals within 18 in. (450 mm) of enclosure" or equivalent
- The statement: "Wiring in this compartment may reach 90°C in an ambient of 65°C" or equivalent
- The statement: "All input circuits must be derived from a Class 2 Certified power supply" or equivalent

Notes:

Products certified under Class C225802 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
80118970	2022-06-28	Evaluation for revision to 2531731 (last update 80041290) to update model numbers. Includes revision to DWG DW2169 Rev D. Update was to add the “8” to make the series the “PD8” Series
80041290	2020-12-16	Evaluation to update CSA Certificate Report 2531731 to add the EC700 and EX700 Series component enclosures from CSA Certificate Report 80011200, Certificate 80055209; update to the lower end temperature rating from -40C to -55C based on the alternate enclosure ratings of -55C; nomenclature and mode code changes not affecting certification; addition of routine dielectric factory test
70006553	2014-07-22	Evaluation for update of report 2531731 to investigate XP testing previously conducted with possible revision to the markings specifing seal within 18 inches for all installations. Any testing deemed required will be additional.
2531731	2012-08-27	Original model certification of PD8 Series, programmable controllers for Hazardous Locations