



1 **EU-TYPE EXAMINATION CERTIFICATE**

2 Equipment intended for use in Potentially Explosive Atmospheres Directive 2014/34/EU

3 Certificate Number: **Sira 12ATEX1182X** Issue: **3**

4 Equipment: **PD8 Series Device**

5 Applicant: **Precision Digital Corp**

6 Address: **233 South Street  
Hopkinton  
Massachusetts 01748  
USA**

7 This equipment and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.

8 CSA Group Netherlands B.V., notified body number 2813 in accordance with Articles 17 and 21 of Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014, certifies that this equipment has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment intended for use in potentially explosive atmospheres given in Annex II to the Directive.

The examination and test results are recorded in the confidential reports listed in Section 14.2.

9 Compliance with the Essential Health and Safety Requirements, with the exception of those listed in the schedule to this certificate, has been assured by compliance with the following documents:

EN IEC 60079-0:2018                      EN 60079-1:2014                      EN 60079-31:2014

10 If the sign 'X' is placed after the certificate number, it indicates that the equipment is subject to Specific Conditions of Use identified in the schedule to this certificate.

11 This EU-Type Examination Certificate relates only to the design and construction of the specified equipment. If applicable, further requirements of this Directive apply to the manufacture and supply of this equipment.

12 The marking of the equipment shall include the following:

**When using 8117 enclosures**



II 2 GD  
Ex db IIC T\* Gb  
Ex tb IIIC T90°C Db IP68  
Ta = -40°C to +\*°C  
\*T6 = -40°C to +60°C  
\*T5 = -40°C to +65°C

**When using EC700 or EX700 enclosures**



II 2 GD  
Ex db IIC T\* Gb  
Ex tb IIIC T90°C Db IP68  
Ta = -55°C to +\*°C  
\*T6 = -55°C to +60°C  
\*T5 = -55°C to +65°C



Signed: Michelle Halliwell

Title: Director of Operations

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13 DESCRIPTION OF EQUIPMENT

The PD8 series of industrial meters/controllers, are microprocessor based industrial process meters, used to measure and display analogue signal-based processes by accepting current, voltage, temperature, pulse and resistance signals.

The PD8 series is manufactured utilising one of two component certified enclosures, which have a maximum internal free volume of 2220 cm<sup>3</sup>, and may be manufactured from cast aluminium or stainless steel depending on enclosure type, these may also include an epoxy paint finish

The enclosures comprise of cylindrical single compartment formed by a base and cover, with the cover containing a circular tempered glass window and the base having up to four conduit openings, of entry sizes selected from 1/2" NPT, 3/4" NPT or M20x1.5.

Variants of the PD8 series are available in the following voltage ranges.

- 85- 265 V a.c.
- 90 - 265 V d.c.
- 12/24 V d.c.
- 12 - 24 V a.c.
- 12 - 36 V d.c.

Model Variations:

Model	Series Description	Options	Enclosure
PD8-154-6R2-1	4-Point Alarm Annunciator	Two Relays, 24VDC Transmitter Supply	Aluminum
PD8-154-6R2-1-AL	4-Point Alarm Annunciator	Two Relays, 24VDC Transmitter Supply	Aluminum
PD8-154-6R2-1-SS	4-Point Alarm Annunciator	Two Relays, 24VDC Transmitter Supply	Stainless Steel
PD8-154-7R2-0	4-Point Alarm Annunciator	Two Relays	Aluminum
PD8-154-7R2-0-AL	4-Point Alarm Annunciator	Two Relays	Aluminum
PD8-154-7R2-0-SS	4-Point Alarm Annunciator	Two Relays	Stainless Steel
PD8-158-6R2-1	8-Point Alarm Annunciator	Two Relays, 24VDC Transmitter Supply	Aluminum
PD8-158-6R2-1-AL	8-Point Alarm Annunciator	Two Relays, 24VDC Transmitter Supply	Aluminum
PD8-158-6R2-1-SS	8-Point Alarm Annunciator	Two Relays, 24VDC Transmitter Supply	Stainless Steel
PD8-158-7R2-0	8-Point Alarm Annunciator	Two Relays	Aluminum
PD8-158-7R2-0-AL	8-Point Alarm Annunciator	Two Relays	Aluminum
PD8-158-7R2-0-SS	8-Point Alarm Annunciator	Two Relays	Stainless Steel
PD8-865-6R2-06	Modbus Snooper Meter	Two Relays	Aluminum
PD8-865-6R2-06-AL	Modbus Snooper Meter	Two Relays	Aluminum
PD8-865-6R2-06-SS	Modbus Snooper Meter	Two Relays	Stainless Steel
PD8-865-6R5-16	Modbus Snooper Meter	Two Relays, 4-20mA Output with 24VDC Transmitter Supply	Aluminum
PD8-865-6R5-16-AL	Modbus Snooper Meter	Two Relays, 4-20mA Output with 24VDC Transmitter Supply	Aluminum
PD8-865-6R5-16-SS	Modbus Snooper Meter	Two Relays, 4-20mA Output with 24VDC Transmitter Supply	Stainless Steel
PD8-865-6R7-16	Modbus Snooper Meter	Four Relays, 4-20mA Output with 24VDC Transmitter Supply	Aluminum
PD8-865-6R7-16-AL	Modbus Snooper Meter	Four Relays, 4-20mA Output with 24VDC Transmitter Supply	Aluminum
PD8-865-6R7-16-SS	Modbus Snooper Meter	Four Relays, 4-20mA Output with 24VDC Transmitter Supply	Stainless Steel
PD8-865-7R5-06	Modbus Snooper Meter	Two Relays and 4-20mA Output	Aluminum
PD8-865-7R5-06-AL	Modbus Snooper Meter	Two Relays and 4-20mA Output	Aluminum
PD8-865-7R5-06-SS	Modbus Snooper Meter	Two Relays and 4-20mA Output	Stainless Steel
PD8-865-7R7-06	Modbus Snooper Meter	Four Relays and 4-20mA Output	Aluminum
PD8-865-7R7-06-AL	Modbus Snooper Meter	Four Relays and 4-20mA Output	Aluminum
PD8-865-7R7-06-SS	Modbus Snooper Meter	Four Relays and 4-20mA Output	Stainless Steel

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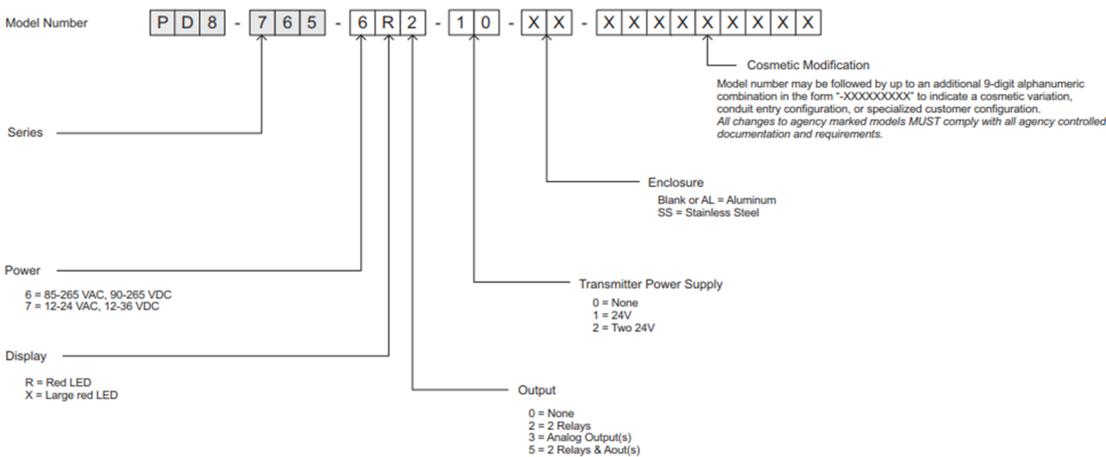
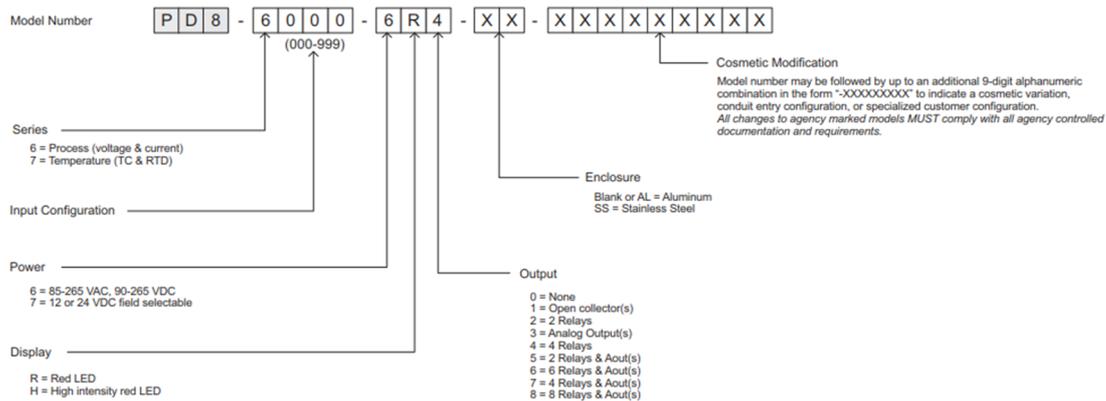
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Variation 1 - This variation introduced the following change:

- i. The company address was changed from 89 October Hill Road, STE 5, Holliston, Massachusetts 01746-1378, USA to 233 South Street, Hopkinton, Massachusetts 01748, USA.
- ii. A typographical error in the standards was corrected.

Variation 2 - This variation introduced the following changes:

- i. Following appropriate assessment to demonstrate compliance with the latest technical knowledge: EN 60079-0:2009, EN 60079-1:2007 and EN 60079-31:2009 were replaced by EN IEC 60079-0:2018, EN 60079-0:2014, and EN 60079-31:2014, the markings in section 12 were updated accordingly. As a result, Specific Conditions of Use were introduced, and an 'X' was added to the certificate number.
- ii. To allow the addition of optional enclosures covered by the certificates Sira 19ATEX1252U for use in a low ambient of -55, with the currently certified internal arrangement.

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#### 14 DESCRIPTIVE DOCUMENTS

##### 14.1 Drawings

Refer to Certificate Annexe.

##### 14.2 Associated Reports and Certificate History

Issue	Date	Report number	Comment
0	08 August 2012	R24911A/00	The release of the prime certificate.
1	10 March 2016	R70064949A	The introduction of Variation 1.
2	15 October 2019	1391	<ul style="list-style-type: none"><li>Transfer of certificate Sira 12ATEX1182 from Sira Certification Service to CSA Group Netherlands B.V.</li><li>EC Type-Examination Certificate in accordance with 94/9/EC updated to EU Type-Examination Certificate in accordance with Directive 2014/34/EU. <i>(In accordance with Article 41 of Directive 2014/34/EU, EC Type-Examination Certificates referring to 94/9/EC that were in existence prior to the date of application of 2014/34/EU (20 April 2016) may be referenced as if they were issued in accordance with Directive 2014/34/EU. Variations to such EC Type-Examination Certificates may continue to bear the original certificate number issued prior to 20 April 2016.)</i></li></ul>
3	20 February 2023	R80117985A	The introduction of Variation 2.

#### 15 SPECIFIC CONDITIONS OF USE (denoted by X after the certificate number)

15.1 The equipment label and epoxy coating may generate an ignition-capable level of electrostatic charges under certain extreme conditions. The user should ensure that the equipment is not installed in a location where it may be subjected to external conditions (such as high-pressure steam) which might cause a build-up of electrostatic charges on non-conducting surfaces. Additionally, cleaning of the equipment should be done only with a damp cloth.

15.2 Flameproof joints are not intended to be repaired.

15.3 All entry closure devices shall be suitably certified as "Ex d", "Ex t" and "IP66/68" as applicable. Suitable thread sealing compound (non-setting, non-insulating, non-corrosive, not solvent based, suitable for the ambient rating) must be used at the NPT conduit entries to achieve the IPx8 rating while maintaining the Ex protection concept.

#### 16 ESSENTIAL HEALTH AND SAFETY REQUIREMENTS OF ANNEX II (EHSRs)

The relevant EHSRs that are not addressed by the standards listed in this certificate have been identified and individually assessed in the reports listed in Section 14.2.

#### 17 CONDITIONS OF MANUFACTURE

17.1 The use of this certificate is subject to the Regulations Applicable to Holders of CSA Group Netherlands B.V. certificates.

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- 17.2 Holders of EU-Type Examination Certificates are required to comply with the conformity to type requirements defined in Article 13 of Directive 2014/34/EU.
- 17.3 The equipment covered by this certificate incorporates previously certified devices, it is therefore the responsibility of the manufacturer to continually monitor the status of the certification associated with these devices, and the manufacturer shall inform CSA Group of any modifications of the devices that may impinge upon the explosion safety design of their products.

They shall also provide the end user with the appropriate certification documents.

Description	Certificate Number
Model 8117PD enclosure	Sira 10ATEX1200U
EC700 / EX700 enclosure	Sira 19ATEX1252U

- 17.4 The maximum power dissipated within the equipment is set to a maximum of 13.73 Watts.
- 17.5 The equipment shall be marked for an ambient temperature range dependent of the enclosure type used in the construction as detailed below:  
 Model 8117PD (Sira 10ATEX1200U) T6 = -40°C to +60°C  
 Model 8117PD (Sira 10ATEX1200U) T5 = -40°C to +65°C  
 Model EC/EX700 (Sira 19ATEX1252U) T6 = -55°C to +60°C  
 Model EC/EX700 (Sira 19ATEX1252U) T5 = -55°C to +65°C

# Certificate Annexe



Certificate Number: Sira 12ATEX1182X  
Equipment: PD8 Series Device  
Applicant: Precision Digital Corp

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## Issue 0

Drawing	Sheets	Rev	Date (Sira stamp)	Title
DW2168	1 to 17	A	07 Aug 2012	ATEX/IECEx certification drawing

Issue 1 No new drawings were introduced.

## Issue 2

Drawing	Sheets	Rev.	Date (Stamp)	Title
DW2168	1 to 25	B	13 Feb 2023	ATEX/IECEx Certification drawing

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