



1 **EC TYPE-EXAMINATION CERTIFICATE**

2 Equipment intended for use in Potentially Explosive Atmospheres Directive 94/9/EC

3 Certificate Number: **Sira 10ATEX1116X** Issue: **2**

4 Equipment: **A range of explosion proof process meters**

5 Applicant: **Precision Digital Corporation**

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 Sira Certification Service, notified body number 0518 in accordance with Article 9 of Directive 94/9/EC of 23 March 1994, 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 60079-0:2009 EN 60079-1:2007 EN 60079-31:2009

The above list of documents may detail standards that do not appear on the UKAS Scope of Accreditation, but have been added through Sira's flexible scope of accreditation, which is available on request.

10 If the sign 'X' is placed after the certificate number, it indicates that the equipment is subject to special conditions for safe use specified in the schedule to this certificate.

11 This EC 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:



II 2 G D
Ex d IIC T6 Gb
Ex tb IIIC T85°C Db IP68
Tamb -40°C to +75°C

Project Number 70064949



A G Boyes
Certification Support Officer

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Sira Certification Service

Unit 6, Hawarden Industrial Park,
Hawarden, CH5 3US, United Kingdom



SCHEDULE

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Sira 10ATEX1116X
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13 DESCRIPTION OF EQUIPMENT

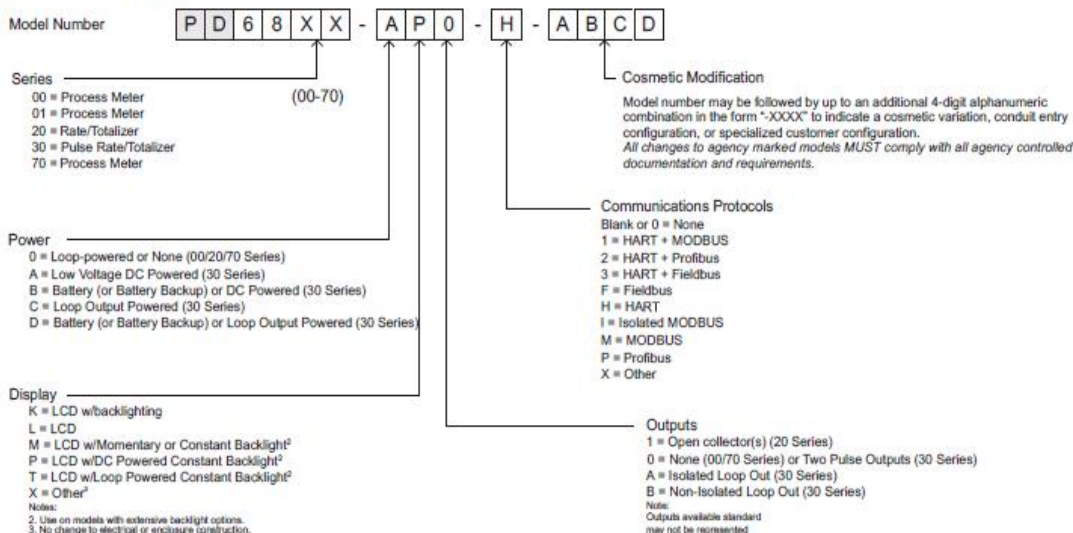
The meters utilise one of two flameproof enclosures covered by Sira 08ATEX1325U or Sira 07ATEX1331U. The enclosure comprises a cylindrical base with a threaded cover housing a liquid crystal display. Models within the series may be powered by battery, directly from the 4-20 mA loop, or by low voltage DC and accept process inputs such as from a loop transmitter or pulse transmitter. Each enclosure is fitted with up to three conduit openings which may be fitted with suitably certified and dimensioned cable entry devices or stopping plugs.

The PD68xx series

The PD6800 series are explosion-proof meters with a liquid crystal display. The backlight option allows the display to be visible under any lighting condition. Models within the series may be powered by battery, directly from the 4-20 mA loop, or by low voltage DC and accept process inputs such as from a loop transmitter or pulse transmitter. The instrument enclosure covered by Sira 08ATEX1325U is a cylindrical single compartment enclosure comprising a base and cover with a maximum internal volume of 700 cm³. The enclosure is manufactured from cast aluminium with an epoxy paint finish. The enclosure's cover contains a circular tempered glass window. Each enclosure is fitted with up to three conduit openings which may be fitted with suitably certified and dimensioned cable entry devices or stopping plugs.



Model Variations:



Note: Model number may be followed by up to an additional 4-digit alphanumeric combination in the form "-XXXX" to indicate a cosmetic variation and/or conduit entry.

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The PD663 Series

The PD663 derives all its power from 4-20 mA loop. The PD663's series is scaled using four push buttons or through the explosion-proof enclosure with optional reed switches and a magnetic key. Scaling can be done without applying an actual calibration signal. The loop-powered backlighting option allows the display to be visible under any lighting condition. The instrument enclosure covered by Sira 07ATEX1331U is a cylindrical single compartment enclosure comprising a base and cover with a maximum internal volume of 250 cm³. The enclosure is manufactured from cast aluminium with an epoxy paint finish. The enclosure cover contains a circular tempered glass window. Each enclosure is fitted with up to 3 conduit openings which may be fitted with suitably certified and dimensioned cable entry devices or stopping plugs.



Model Series	Description	Options
PD663-0L0-00	Explosion Proof Process Meter	Loop-Powered
PD663-0K0-00	Explosion Proof Process Meter	Loop-Powered, Backlight
PD663-0LA-00	Explosion Proof Process Meter	Loop-Powered, Magnetic Button
PD663-0KA-00	Explosion Proof Process Meter	Loop-Powered, Backlight, Magnetic Button

Note: Model number may be followed by up to an additional 4-digit alphanumeric combination in the form "-XXXX" to indicate a cosmetic variation and/or conduit entry configuration.

PD310 The ExSense T Series is a line of smart temperature transmitters with HART® communication capabilities. They can be configured using a HART modem and a PC, running the free HART software provided, or using a handheld HART communicator. The PD310 model does not include a sensor.

The backlit LCD provides the user with information such as the process variable, input type, and engineering units. The display can be programmed to show the PV, mA output, or %. The loop-powered backlight is standard on all models and allows the display to be visible under any lighting condition.



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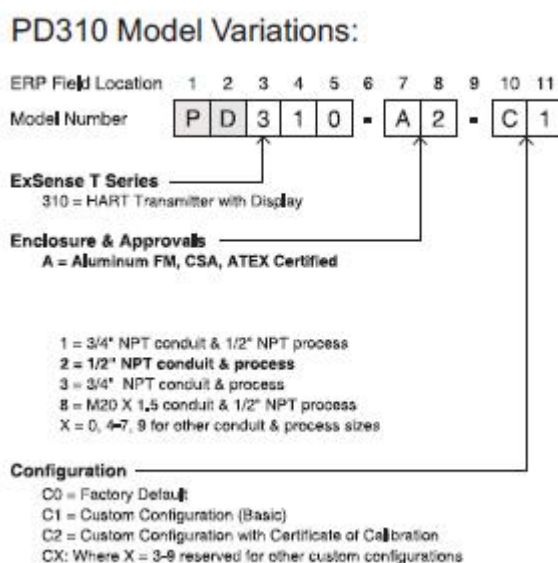


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The instrument enclosure covered by Sira 07ATEX1331U, is a cylindrical single compartment enclosure comprising a base and cover with a maximum internal volume of 250 cm³. The enclosure is manufactured from cast aluminium with an epoxy paint finish. The enclosure cover contains a circular tempered glass window. Each enclosure is fitted with up to 3 conduit openings with one utilised as a process sensor connection port. For remote mounting applications the PD310 may be ordered without the process sensor connection port.



Variation 1 - This variation introduced the following changes:

- As it is no longer manufactured, the PD312 Model was removed, the description was amended accordingly, refer to Issue 0 for details of the PD312 version.
- The introduction of new PD68xx series models, the description was changed to recognise the latest reference details.
- A new battery was introduced, PDABAT36C, this is smaller than the existing PDABAT36D battery and therefore the battery board was modified, a Special Condition for Safe Use relative to the application of the batteries was applied.
- A new circuit for the PD6830 was introduced.
- Minor drawing changes were recognised e.g. the addition of a note about Field Modification, the re-definition of the exterior label material, the push buttons are now defined as optional; these amendments are administrative or involve changes to the design that do not affect the aspects of the product that are relevant to explosion safety.
- Following appropriate assessment to demonstrate compliance with the requirements of the later standards, IEC 60079-31:2008 was replaced by EN 60079-31:2009 in section 9.
- The removal of a superfluous Condition of Certification.

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Issue 2**

Variation 2 - 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.

14 DESCRIPTIVE DOCUMENTS

14.1 Drawings

Refer to Certificate Annexe.

14.2 Associated Sira Reports and Certificate History

Issue	Date	Report number	Comment
0	19 May 2010	R20524A/00	The release of prime certificate.
1	25 September 2012	R27676A/00	The introduction of Variation 1.
2	10 March 2016	R70064949A	The introduction of Variation 2.

15 SPECIAL CONDITIONS FOR SAFE USE (denoted by X after the certificate number)

- 15.1 The battery shall not be recharged; in addition, it shall only be replaced by a Precision Digital battery with the same part number as the one being replaced.

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 CERTIFICATION

- 17.1 The use of this certificate is subject to the Regulations Applicable to Holders of Sira Certificates.
- 17.2 Holders of EC type-examination certificates are required to comply with the production control requirements defined in Article 8 of directive 94/9/EC.
- 17.3 The maximum power dissipated within the equipment is set to a maximum of 2.2 Watts.
- 17.4 The products covered by this certificate incorporate previously certified parts, it is therefore the responsibility of the manufacturer to continually monitor the status of the certification associated with these parts, and the manufacturer shall inform Sira of any modifications of the parts that may impinge upon the explosion safety design of their products.

Certificate Annexe



Certificate Number: Sira 10ATEX1116X
Equipment: A range of explosion proof process meters
Applicant: Precision Digital Corporation

Issue 0

Drawing	Sheets	Rev.	Date (Sira stamp)	Title
DW1867	1 to 8	A	01 April 10	ATEX/IECEX Certification drawings PD663/310/312
DW1866	1 to 8	A	01 April 10	ATEX/IECEX Certification drawings PD6800 Series

Issue 1

Drawing	Sheets	Rev.	Date (Sira stamp)	Title
DW1866	1 to 8	B	06 Sep12	ATEX/IECEX Certification drawings PD6800 Series
DW1867	1 to 7	B	06 Sep12	ATEX/IECEX Certification drawings PD663/310 Series

Issue 2 No new drawings were introduced.

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