



IECEX Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification System for Explosive Atmospheres

for rules and details of the IECEx Scheme visit www.iecex.com

Certificate No.: **IECEX CML 17.0008X** Page 1 of 4 Certificate history:
Status: **Current** Issue No: 2 [Issue 1 \(2021-10-08\)](#)
[Issue 0 \(2017-07-25\)](#)
Date of Issue: 2022-09-06
Applicant: **Precision Digital Corporation**
233 South Street
Hopkinton
MA 01748
United States of America
Equipment: **PD66xx Series Loop Powered Indicator**
Optional accessory:
Type of Protection: **Intrinsic safety Ex "i"**
Marking: Ex ia IIC T4 Ga
Tamb = -40°C to +70°C

Approved for issue on behalf of the IECEx
Certification Body:

L A Brisk

Position:

Certification Officer

Signature:
(for printed version)

Date:
(for printed version)

2022-09-06

1. This certificate and schedule may only be reproduced in full.
2. This certificate is not transferable and remains the property of the issuing body.
3. The Status and authenticity of this certificate may be verified by visiting www.iecex.com or use of this QR Code.



Certificate issued by:

Eurofins E&E CML Limited
Unit 1, Newport Business Park
New Port Road
Ellesmere Port, CH65 4LZ
United Kingdom





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Manufacturer: **Precision Digital Corporation**
233 South Street
Hopkinton
MA 01748
United States of America

Manufacturing locations: **Precision Digital Corporation**
233 South Street
Hopkinton
MA 01748
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This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacturer's quality system, relating to the Ex products covered by this certificate, was assessed and found to comply with the IECEX Quality system requirements. This certificate is granted subject to the conditions as set out in IECEX Scheme Rules, IECEX 02 and Operational Documents as amended

STANDARDS :

The equipment and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards

[IEC 60079-0:2017](#) Explosive atmospheres - Part 0: Equipment - General requirements
Edition:7.0

[IEC 60079-11:2011](#) Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"
Edition:6.0

This Certificate **does not** indicate compliance with safety and performance requirements other than those expressly included in the Standards listed above.

TEST & ASSESSMENT REPORTS:

A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in:

Test Reports:

[GB/CML/ExTR17.0021/00](#)

[GB/CML/ExTR21.0236/00](#)

[GB/CML/ExTR22.0113/00](#)

Quality Assessment Report:

[GB/SIR/QAR10.0005/13](#)



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EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

The PD66xx Series Loop Powered Indicators are general purpose loop powered indicators with liquid crystal displays and programming buttons. Various models are available with display and measurement options.

See Annex for full description

SPECIFIC CONDITIONS OF USE: YES as shown below:

See Annex for Specific Conditions of Use



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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)

Issue 1

This issue introduces the following changes:

1. The use of equipment with alternative components.
2. The use of equipment with additional components.
3. The use of an alternative PCB layout.
4. Update of standard to EN IEC 60079-0:2018.
5. Recognition the previous transfer of the certification from Eurofins E&E CML Limited (CML UK) to CML B.V., on this certificate.

Issue 2

This issue introduces the following changes:

1. Correction of typographical errors on BoM
2. Change to part number

Annex:

[IECEX CML 17.0008X Iss. 2 Annex.pdf](#)

Annexe to: IECEx CML 17.0008X, Issue 2

Applicant: Precision Digital Corporation

Apparatus: PD66xx Series Loop Powered Indicator

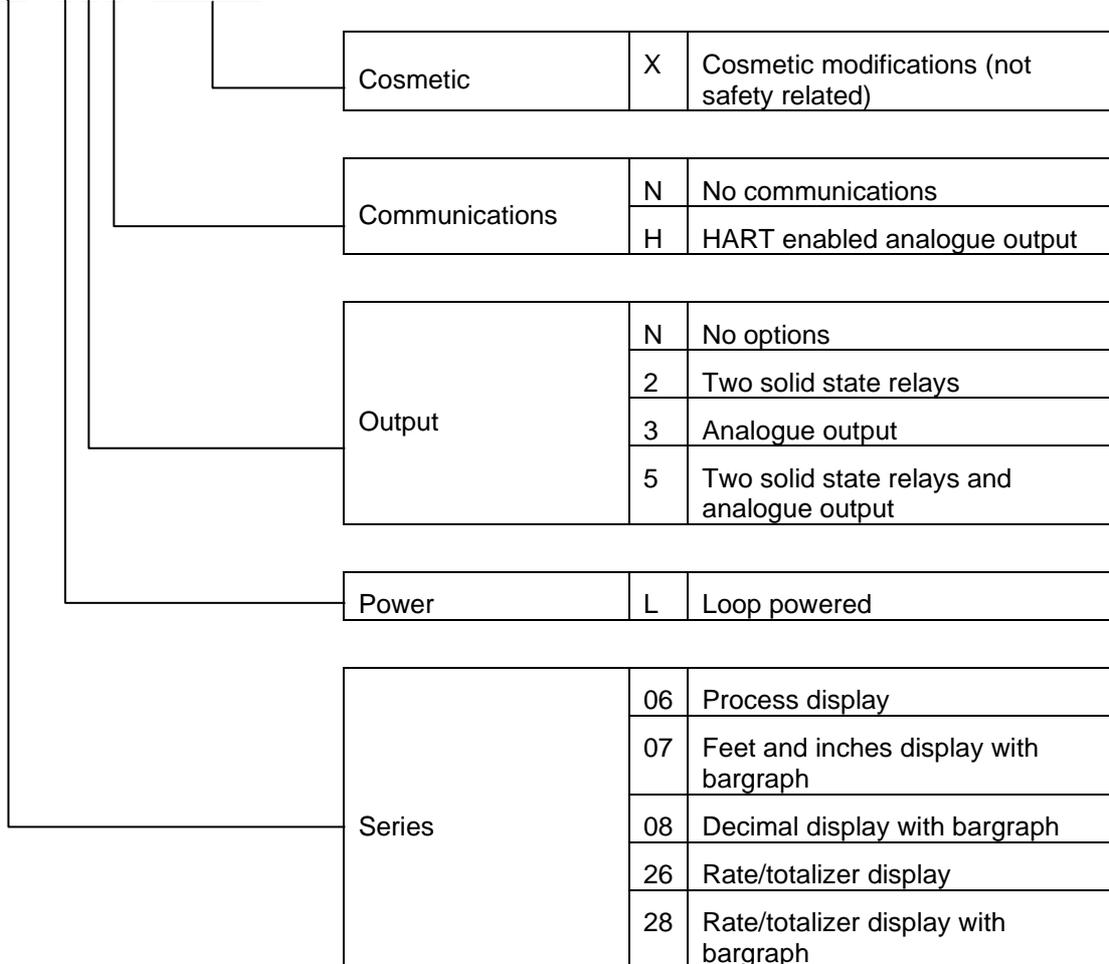
Description

The PD66xx Series Loop Powered Indicators are general purpose loop powered indicators with liquid crystal displays and programming buttons. Various models are available with display and measurement options.

All models have a digital contact (switch) input and two open collector outputs. Optionally, the meters may be fitted with two solid state relay outputs, and/or a 4-20 mA loop output which may be HART compatible.

The following models and options are covered by this certificate:

PD66XX – L X X – XXXXXX





Intrinsic safety is achieved by limiting energy storage and discharge, and by connecting to the non-hazardous area via intrinsically safe interface devices.

The equipment has the following safety description for each port:

Loop/power connection			Open collector outputs			4-20mA linear output			4-20mA HART output			Switch port			Relay outputs		
U _i	=	30V	U _i	=	30V	U _i	=	30V	U _i	=	30V	U _i	=	30V	U _i	=	30V
I _i	=	175mA	I _i	=	175mA	I _i	=	175mA	I _i	=	175mA	I _i	=	175mA	I _i	=	1.0A
P _i	=	1W	P _i	=	1W	P _i	=	1W	P _i	=	1W	P _i	=	1W	P _i	=	1.1W
C _i	=	0	C _i	=	0	C _i	=	0	C _i	=	0	C _i	=	0	C _i	=	0.012μF
L _i	=	0	L _i	=	0	L _i	=	0	L _i	=	0	L _i	=	0	L _i	=	0
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	U _o	=	11.55V
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	I _o	=	0.001A
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	P _o	=	0.013W

Conditions of Manufacture

None

Specific Conditions of Use

The following conditions relate to safe installation and/or use of the equipment.

- i. Under certain extreme circumstances, the non-metallic parts incorporated in the enclosure of this equipment 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 such surfaces. This is particularly important if the equipment is installed in a zone 0 location. In addition, the equipment shall only be cleaned with a damp cloth.
- ii. The equipment shall be installed in an enclosure which provides a minimum degree of protection of IP20 for the equipment connections.
- iii. The equipment loop/power port shall be connected to an intrinsically safe barrier with $U_o \geq 11V$