



IECEX Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification Scheme for Explosive Atmospheres

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

Certificate No.: IECEX CML 17.0052X Issue No: 0 Certificate history:
Issue No. 0 (2017-07-25)

Status: **Current** Page 1 of 3

Date of Issue: **2017-07-25**

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

Equipment: **PD685/686 Loop Powered Indicator**
Optional accessory:

Type of Protection: **Intrinsic safety**

Marking:
Ex ia IIC T4 Ga
Ex ia IIIC T135°C Da
Ta = -40°C to +75°C

Approved for issue on behalf of the IECEX
Certification Body:

A Snowdon

Position:

Certification Officer

Signature:
(for printed version)

Date:

July 25, 2017

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 the Official IECEX Website.

Certificate issued by:

Certification Management 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

Additional Manufacturing location(s):

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 electrical apparatus 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 : 2011 Explosive atmospheres - Part 0: General requirements
Edition:6.0

IEC 60079-11 : 2011 Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"
Edition:6.0

*This Certificate **does not** indicate compliance with electrical 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 Report:

[GB/CML/ExTR17.0088/00](#)

Quality Assessment Report:

[GB/SIR/QAR10.0005/07](#)



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Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

PD685/686 Loop Powered Indicator

See Annex for full description

SPECIFIC CONDITIONS OF USE: YES as shown below:

See Annex for Specific Conditions of Use

Annex:

[IECEX CML 17.0052X Annex Issue 0.pdf](#)

Annexe to: IECEx CML 17.0052X, Issue 0
Applicant: Precision Digital Corporation
Apparatus: PD685/686 Loop Powered Indicator



Product Description

The PD685/686 Loop Powered Indicators are general purpose loop powered indicators with liquid crystal displays. The equipment is powered from the 4-20mA signal being measured. Connection terminals are provided inside the equipment and the external cable enters the enclosure via conduit or a suitable cable gland.

The electronics assembly is housed in a non-metallic enclosure and the equipment is suitable for both gases and combustible dusts.

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

The equipment has the following safety description:

U _i	=	30 V
I _i	=	175 mA
P _i	=	1 W
C _i	=	0
L _i	=	0

Conditions of Manufacture

None

Conditions of Certification (IECEx 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 cable entry into the enclosure shall be by means of conduit or cable gland and shall provide a minimum degree of protection of IP5X.

