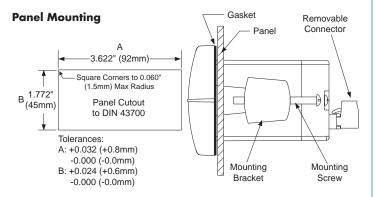
PD6600 Series ATEX and IECEx Certified, UL/C-UL Listed Loop-powered Meter Intrinsic Safety Control Drawing

SECTION	AGENCY	DESCRIPTION
1.0		Safety Information
2.0	ATEX and IECEx	Special Conditions for Safe Use
3.0	UL/C-UL	Special Conditions for Safe Use
4.0	ATEX and IECEx,	Hazardous Area Approvals

NOTE: THIS IS AN AGENCY CONTROLLED DOCUMENT NO CHANGES CAN BE MADE WITHOUT PRIOR APPROVAL.

1.0 SAFETY INFORMATION

- 1.1 Read complete instructions prior to installation and operation of the meter.
- 1.2 Installation and service should be performed only by trained service personnel.
- **1.3** Substitution of components may impair hazardous location safety.
- 1.4 Service requiring replacement of internal components must be performed at the factory.
- 1.5 Equipment contains non-metallic materials and therefore special care and consideration should be made to the performance of these materials with respect to chemicals which may be present in a hazardous environment.
- **1.6** PD6600 series indicator does not add capacitance or inductance to loop under normal or fault conditions.
- 1.7 Hazardous location installation instructions for associated apparatus (barrier) must also be followed when installing this equipment.



2.0 ATEX AND IECEX SPECIAL CONDITIONS FOR SAFE USE

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

- 2.1 For European Community: The PD6600 must be installed in accordance with the Essential Health & Safety Requirements of Directive 2014/34/EU, the product certificates CML 17ATEX2015X and IECEx CML 17.0008X, and the product manual.
- 2.2 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.
- 2.3 The equipment shall be installed in an enclosure which provides a minimum degree of protection of IP20 for the equipment connections.
- 2.4 The equipment loop/power port shall be connected to an intrinsically safe barrier with Uo ≥ 11V.
- 2.5 Entity parameters must meet the following requirements: Ui = 30 V, Ii = 175 mA, Ci = 0 μ F, Li = 0 μ H, Pi = 1.0 W
- 2.6 For ATEX Certification, barrier and transmitter must be ATEX Certified with Entity Parameters and must be connected per manufacturer's instructions.

3.0 UL/C-UL SPECIAL CONDITIONS FOR SAFE USE

- **3.1** Associated apparatus may be in a Division 2 or Zone location if so approved.
- 3.2 For North American Community: Installation and service of this device and/or associated apparatus (barrier) should be performed only by trained service personnel, and must be installed in accordance with the manufacturer's control drawing, Article 504 of the National Electric Code (ANSI/NFPA 70) for installation in the United States, or Section 18 of the Canadian Electrical Code for installations in Canada.
- 3.3 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.
- 3.4 The equipment shall be installed in a tool secured enclosure which provides a minimum degree of protection of IP20 for the equipment connections.
- 3.5 Entity parameters must meet the following requirements: Ui = 30 V, Ii = 175 mA, Ci = 0 μ F, Li = 0 μ H, Pi = 1.0 W

I.S. Equipment Entity Parameters	Required Relationship Between Entity Parameters	I.S. Barrier Entity Parameters
V max (or Ui)	≥	Voc or Vt (or Uo)
I max (or li)	≥	Isc or It (or Io)
P max, Pi	≥	Po
Ci + Ccable	≤	Ca (or Co)
Li + Lcable	≤	La (or Lo)

3.6 For Division 2 and Zone 2 Applications: Division 2 and Zone 2 installations do NOT require the use of an intrinsically-safe barrier or intrinsically-safe entity parameters. Class I, Division 2, Groups A, B, C, and D T4 and Class I, Zone 2, Group IIC T4, -40C <= Ta <= +70C.</p>

WARNING – EXPLOSION HAZARD – Do not disconnect equipment unless power has been removed or the area is known to be non-hazardous

AVERTISSEMENT - RISQUE D'EXPLOSION. NE PAS BRANCHER NI DÉBRANCHER SOUS TENSION

Ratings: V = 30 V dc, I = 30 mA Relay Ratings: 250V ac/dc 1A

4.0 HAZARDOUS AREA APPROVALS



Class I, Division 1, Groups A, B, C and D T4 Class I, Division 2, Groups A, B, C and D T4 Ex ia IIC T4 (Canada); Class I Zone 0, Zone 1, AEx ia IIC T4 (U.S.)

Class I Zone 2, Group IIC T4 (U.S.) PROCESS CONTROL EQUIPMENT FOR USE IN HAZARDOUS LOCATIONS

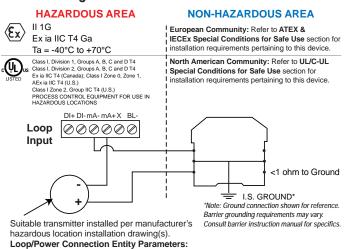


II 1G Ex ia IIC T4 Ga Ta = -40°C to +70°C



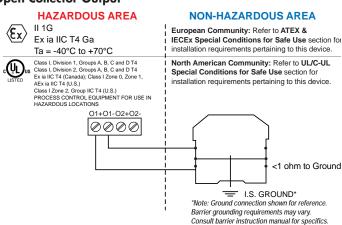
PD6600 Series ATEX and IECEx Certified, UL/C-UL Listed **Loop-powered Meter Intrinsic Safety Control Drawing**

Without Backlight



Open Collector Output

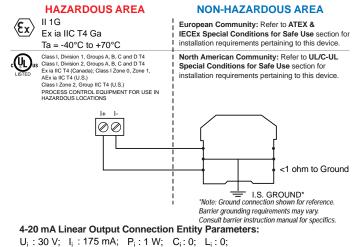
 $U_i : 30 \text{ V}; I_i : 175 \text{ mA}; P_i : 1 \text{ W}; C_i : 0; L_i : 0$



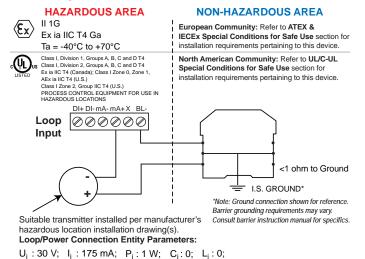
Open Collector Output Connection Entity Parameters:

 $U_i: 30 \text{ V}; I_i: 175 \text{ mA}; P_i: 1 \text{ W}; C_i: 0; L_i: 0$

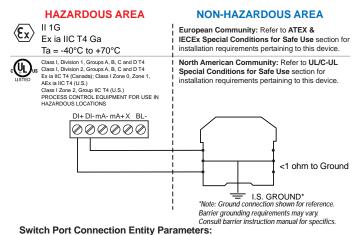
4-20 mA Linear Output



With Backlight

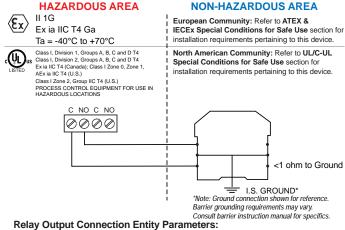


Switch Port



 $U_i: 30 \text{ V} \cdot I_i: 175 \text{ mA}; P_i: 1 \text{ W}; C_i: 0; L_i: 0;$

Relay Outputs



 $U_i: 30 \text{ V}; \qquad I_i: 1.0 \text{ A};$ $P_i: 1.1 \text{ W}; C_i: 0.012 \mu\text{F}; L_i: 0;$ U₀: 11.55 V; I₀: 0.001 A; P₀: 0.013 W;

> LIM6600-2_B DW2516 A

