

PD662

General Purpose NEMA 4X, IP66 Loop-Powered Meter



Survivor



Electrical Safety

PROCESS METER

- NEMA 4X, IP66 Loop-Powered Field-Mount Process Meter
- 4-20 mA Input
- 0.6" (15.2 mm) 3½+ Digits LCD Display; -1999 to 2999
- 1.7 Volt Drop (3.7 Volt Drop with Backlight)
- HART® Protocol Transparent
- Loop-Powered Backlight Option
- CSA Certified for -40 to 75°C (-40 to 167°F) Operation
- Four Internal Buttons for Easy Field Scaling
- Max/Min Display
- Programmable Noise Filter
- 32-Point and Square Root Linearization Functions
- Plastic NEMA 4X, IP66 Enclosure
- Conformal Coated PCBs for Dust and Humidity Protection
- One ½" Conduit Hole in Rear of Enclosure
- Pipe & Panel Mounting Kits
- Stainless Steel Tag Available

**PRECISION
DIGITAL**

1.800.561.8187

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information@itm.com

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OVERVIEW

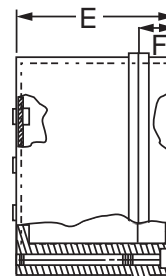
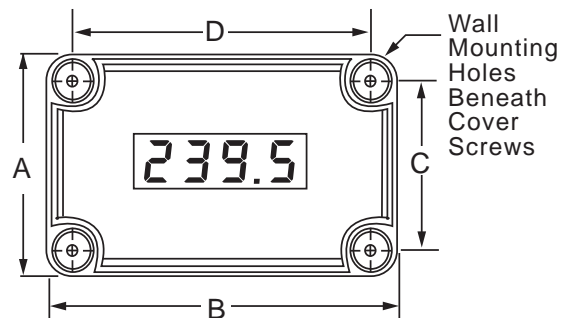
The PD662 NEMA 4X, CSA Certified loop-powered meter is perfect for applications where a simple, inexpensive display is required and AC power is not available. The PD662 derives all its power from the 4-20 mA loop, including its optional backlight feature. It can be easily scaled in the field using four push buttons; with or without applying an actual calibration signal. The PD662's display will read up to 2999; we call this 3½+ digits! The PD662 is housed in a rugged NEMA 4X enclosure and is provided with one ½" NPT pipe conduit hole.

Programming

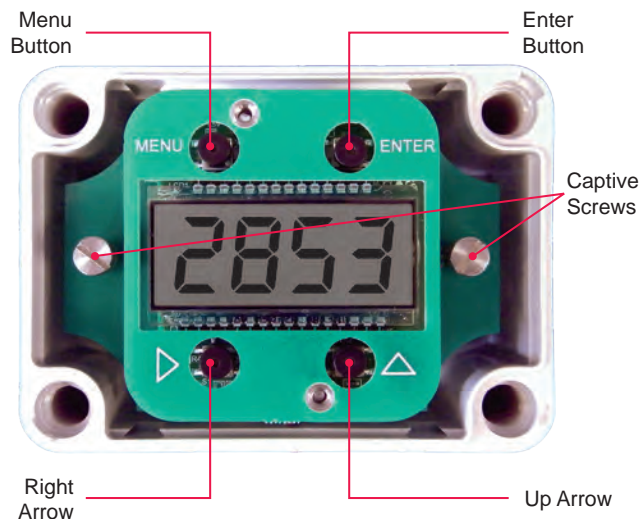
The PD662 Survivor comes calibrated and scaled at the factory to display a 4.00 to 20.00 mA signal on startup. To change the scaling, follow along using the 4 button interface.

DIMENSIONS

Units: Inch (mm)



A: 3.15 (80) C: 2.44 (62) E: 2.76 (70)
B: 4.33 (110) D: 3.62 (92) F: 0.79 (20)



Download free 3-D CAD files of these instruments to simplify your drawings!

predig.com/documentation-cad

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SPECIFICATIONS

Except where noted all specifications apply to operation at +25°C.

General

Display: 0.6" (15.2 mm) LCD, 3½+ digits; -1999 to 2999

Display Update Rate: 2 Updates/Second

Over-Range: Display Flashes 2999

Under-Range: Display Flashes -1999

Programming Method: 4 Internal Pushbuttons

Noise Filter: Programmable HI, LOW, or OFF

Recalibration: Recalibration is recommended at least every 12 months.

Max/Min Display: Max/Min readings reached by the process are stored until reset by the user or until power to the meter is turned off.

Non-Volatile Memory: All programmed settings are stored in non-volatile memory for a minimum of ten years if power is lost.

Normal Mode Rejection: 64 dB at 50/60 Hz

Environmental: Operating Temperature for CSA Certification: -40 to 75°C. Functional Temperature Range: -40 to 85°C. Storage Temp.: -40 to 85°C. Relative Humidity: 0 to 90% non-condensing. Printed circuit boards are conformally coated.

Connections: Removable screw terminals accept 12 to 22 AWG

Tightening Torque: Screw terminal connectors: 4.5 lb-in (0.5 Nm)

Enclosure: Impact-resistant polyester plastic, body color gray, clear cover with blue faceplate; NEMA 4X, IP66; ½" conduit hole provided at base

Weight: 9.3 oz (264 g)

Overall Dimensions: 3.15" x 4.33" x 2.76" (80 mm x 110 mm x 70 mm) (W x H x D)

Warranty: 3 years parts & labor

Input

Input: 4-20 mA

Accuracy: ±1 count

Function: Linear (2 to 32 points) or square root

Temperature Drift: 50 PPM/°C from -40 to 85°C ambient

Decimal Point: User selectable decimal point

Minimum Span: Input 1 & Input 2: 0.40 mA

Maximum Voltage Drop: 1.7 VDC @ 20 mA; 3.7 VDC @ 20 mA with backlight option.

Equivalent Resistance: 85 Ω @ 20 mA without backlight; 185 Ω @ 20 mA with backlight

Loop-Powered Backlight Option: Factory installed only with field wiring option. Powered directly from the 4-20 mA loop, no batteries required. The display brightness will increase as the input signal current increases.

CSA Certification

CSA Certified: U.S. & Canada. 2252 05 – Process Control Equipment. 2252 85 – Process Control Equipment, U.S. Standards.

CSA File Number: 157123

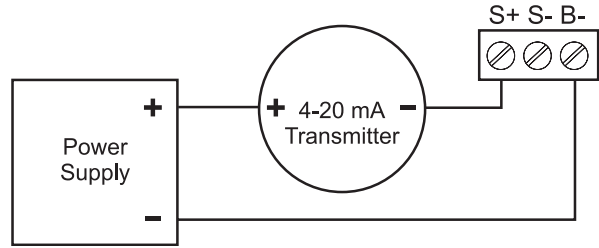
CSA Applicable Requirements: CAN/CSA C22.2 No. 61010-1-04 Safety Requirements for Electrical Equipment for Measurement, Control, and Laboratory Use – Part 1: General Requirements
UL 61010-1:2004, 2nd Edition Safety Requirements for Electrical Equipment for Measurement, Control, and Laboratory Use – Part 1: General Requirements.



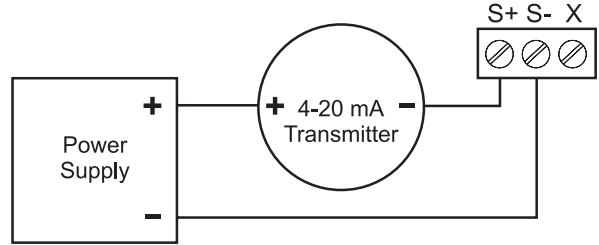
Use the PDA1024-01 24 VDC Power Supply to power the transmitter and this loop-powered meter.

WARNING - Cancer and Reproductive Harm - www.P65Warnings.ca.gov

CONNECTIONS



PD662 Input Connections with Backlight



PD662 Input Connections without Backlight

ORDERING INFORMATION

Survivor • Model PD662 Loop-Powered Process Meter	
Model	Options Installed
PD662-0L0-00*	None
PD662-0K0-00	Backlight

* Quick Shipment Program product, typically shipped within 2 working days

Accessories	
Model	Description
PDA1024-01	24 VDC Power Supply for DIN Rail
PDA6624	Panel Mounting Kit
PDA6845	2" Pipe Mounting Kit
PDA-SSTAG	Stainless Steel Tag

Your Local Distributor is:

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