

# 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

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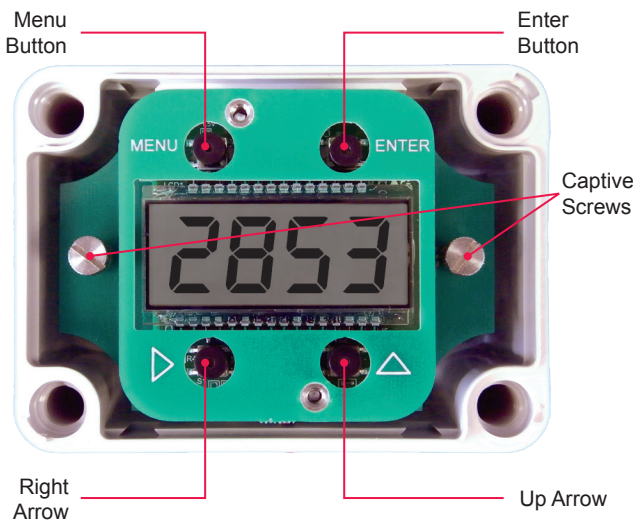


## OVERVIEW

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.

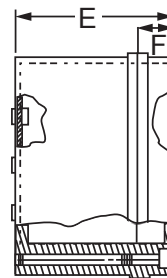
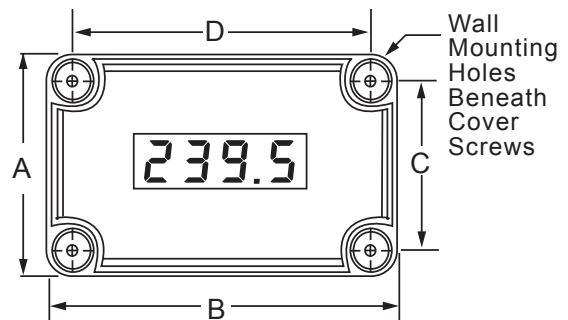
## Programming

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](http://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

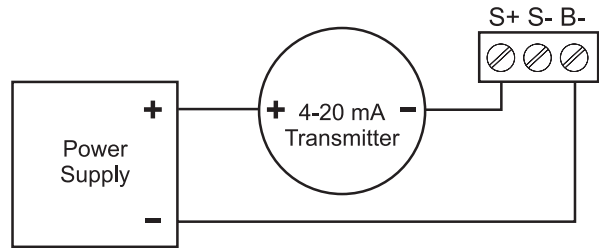
- CSA Certified:** U.S. & Canada. 2252 05 – Process Control Equipment. 2252 85 – Process Control Equipment, U.S. Standards.
- CSA File Number:** 157123
- CSA Applicable Requirements:** CAN/CSA C22.2 No. 61010-1-04 Safety Requirements for Electrical Equipment for Measurement, Control, and Laboratory Use – 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.



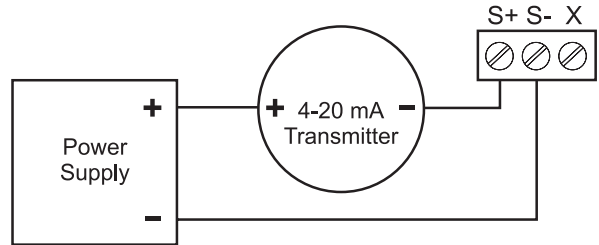
Use the **PDA1024-01 24 VDC Power Supply** to power the transmitter and this loop-powered meter.

**WARNING** - Cancer and Reproductive Harm - [www.P65Warnings.ca.gov](http://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:



**NATIONWIDE  
OIL & GAS**

46, Jalan SS 22/21, Damansara Jaya,  
47400 Petaling Jaya,  
Selangor Darul Ehsan, Malaysia.

Email: [nog@nog.com.my](mailto:nog@nog.com.my)  
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