

PD662 Survivor NEMA 4X Loop-Powered Process Meter

Data Sheet



Survivor



Electrical Safety

- 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
- 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

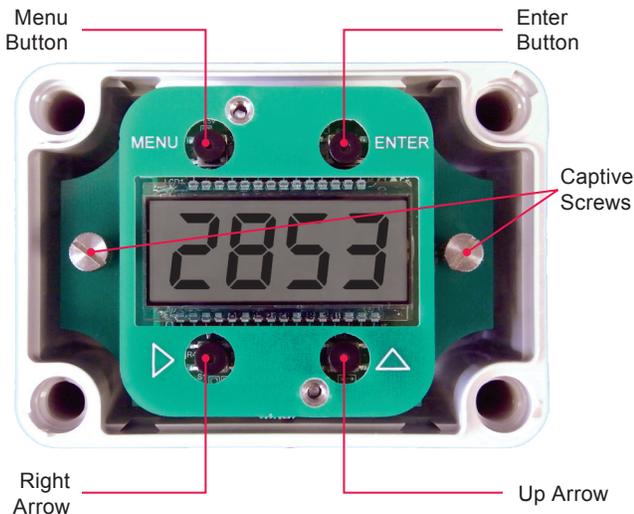


OVERVIEW

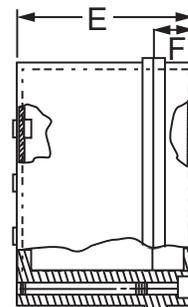
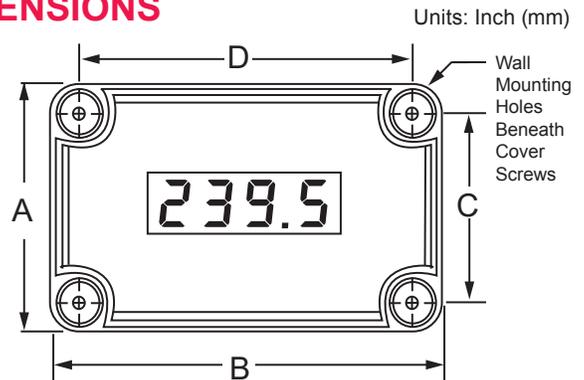
The PD662 NEMA 4X, CSA Certified loop-powered meter is perfect for applications where a simple, inexpensive display is required and AC power is not available. The PD662 derives all its power from the 4-20 mA loop, including its backlight feature. It can be easily scaled in the field using four push buttons; 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



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

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
Backlight	Orange; Loop-powered. Backlight can be enabled or disabled via alternative wiring of terminal block. Loop-powered backlight brightness will increase as the input signal current increases.
Display Overrange	Display flashes 2999
Display Underrange	Display flashes -1999
Programming Method	Four internal pushbuttons
Noise Filter	Programmable HI, LO, 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 temperature range: -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 wire
Enclosure	Impact resistant polyester plastic, body gray, cover clear with blue faceplate; NEMA 4X, IP66; ½" conduit hole provided at base.
Mounting	½" NPT pipe (0.865 in, 12.7 mm) conduit hole on bottom of enclosure. 0.166 in (4.2 mm) wall mounting holes located behind front cover screws. See Dimensions on page 2.
Tightening Torque	Screw terminal connectors: 4.5 lb-in (0.5 Nm)
Overall Dimensions	4.33" x 3.15" x 2.76" (110 mm x 80 mm x 70 mm) (W x H x D)
Weight	10.4 oz (295 g)
Warranty	3 years parts and labor. See Warranty Information and Terms & Conditions on www.predig.com for complete details.

Input

Input	4-20 mA	
Accuracy	±1 count	
Maximum Voltage Drop & Equivalent Resistance	Without Backlight	With Backlight
	1.7 VDC @ 20 mA	3.7 VDC @ 20 mA
	85 Ω @ 20 mA	185 Ω @ 20 mA
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	
Calibration Range	Input Range	Min. Span Input 1 & Input 2
	4-20 mA	0.40 mA
	<i>An Error message will appear if input 1 and input 2 signals are too close together.</i>	
Input Overload	Over current protection to 2 A max.	
HART Transparency	The meter does not interfere with existing HART communications; it displays the 4-20 mA primary variable and it allows the HART communications to pass through without interruption. The meter is not affected if a HART communicator is connected to the loop. The meter does not display secondary HART variables.	

Compliance Information

Safety

CSA Certified	U.S. & Canada 2252 05 – Process Control Equipment 2252 85 – Process Control Equipment, U.S. Standards
CSA File Number	2282691
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 Safety Requirements for Electrical Equipment for Measurement, Control, and Laboratory Use – Part 1: General Requirements
Low Voltage Directive	EN 61010-1 Safety requirements for measurement, control, and laboratory use IEC 61010-1 Safety requirements for measurement, control, and laboratory use

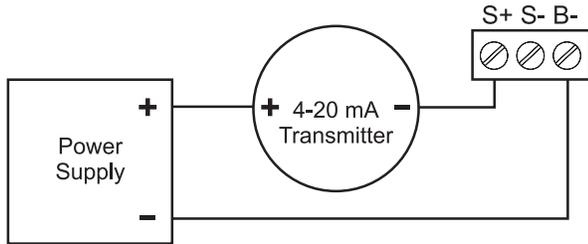
Electromagnetic Compatibility

EMC Emissions & Immunity	EN 61326-1 EMC requirements for Electrical equipment for measurement, control, and laboratory use – Industrial
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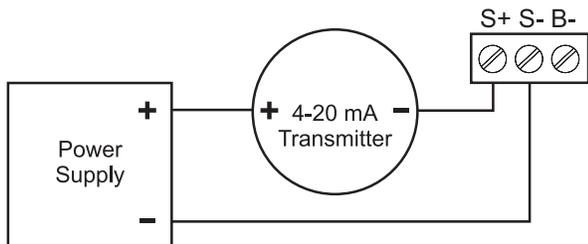
EU Declaration of Conformity

For shipments to the EU and UK, a Declaration of Conformity was printed and included with the product. For reference, a Declaration of Conformity is also available on our website www.predig.com/docs.

CONNECTIONS



PD662 Input Connections with Backlight



PD662 Input Connections without Backlight

ORDERING INFORMATION

Survivor • Model PD662 Loop-Powered Process Meter	
Model	Description
PD662-0K0-00	Field-Mount Loop-Powered Process Meter with Backlight

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



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

Your Local Distributor is:

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⚠ WARNING

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

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