



LPD5-A Series Large Process Meters



The ProSense LPD5 series large format display is a simple-to-use, feature-packed, digital field display for analog process signals. The ProSense LPD5 series features a 100mm 5-digit display, readable up to 50 meters. This very bright sunlight-readable solution ensures crystal-clear visibility for analog inputs, supporting broad voltage ranges ($\pm 10V$, 0-10V, 0-5V, 0-1V, 1-5V) and current ranges ($\pm 20mA$, 0-1mA, 0-5mA, 0-20mA, 4-20mA). The display's IP65 rating allows for installation in outdoor and other tough environments. Dual relay outputs allow for local alarming, indication, and control. Configure easily via three pushbuttons with either two point direct or reverse acting linear scaling values entered manually or by introducing actual sensed process values in Teach Mode. Two models are available for AC or DC powered installations. ProSense meters are backed by a 3-year warranty.

Features:

- IP65 field mount
- Simple menu driven pushbutton configuration
- 100mm 5-digit bright red sunlight readable LED display
- Selectable decimal point
- Supports a broad voltage and current ranges between $\pm 10V$ and $\pm 20mA$
- AC or DC powered models
- Sensor excitation voltage 24VDC
- Display scaling or process teaching modes
- (2) 5A Form C SPDT relays
- Hysteresis or time delay operation
- Configuration for direct or reverse acting linear processes
- Adjustable filtering to minimize display bounce
- 3-year warranty



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Model	Description	Weight (lbs)	Drawing Link	Price
<u>LPD5-A-AC</u>	ProSense digital process meter, field mount, 100mm 5-digit red sunlight readable LED, current or voltage input, (2) 5A SPDT relays output, 100-240 VAC operating voltage, IP65.	9.89	<u>PDF</u>	\$1,249.00
<u>LPD5-A-DC</u>	ProSense digital process meter, field mount, 100mm 5-digit red sunlight readable LED, current or voltage input, (2) 5A SPDT relays output, 19-36 VDC operating voltage, IP65.	10.19	<u>PDF</u>	\$1,299.00

Technical Specifications

Supply Voltage	100 to 240 VAC 50 to 60Hz or 19 to 36 VDC	
Consumption	17W	
Display	5-digit, segment, 100mm high + decimal point	
LED	Red LED sunlight readable. Viewing distance: max 50 meters	
Parameter Memory	EEPROM	
Environmental Conditions	Operation temperature	-20 to 60°C (-4 to 140°F)
	Storage temperature	-30 to 70°C (-22 to 158°F)
	Humidity	5-95% RH non condensing
	Sealing	IP65
Input Signal	Configuration	Differential asymmetrical
Voltage Input	Range	$\pm 10VDC$
	Resolution	0.5 mV
	Input impedance	1 M Ω

Insert



Scan or click the above QR code to be taken to the LPD5-A Series Quick Start Guide

Manual



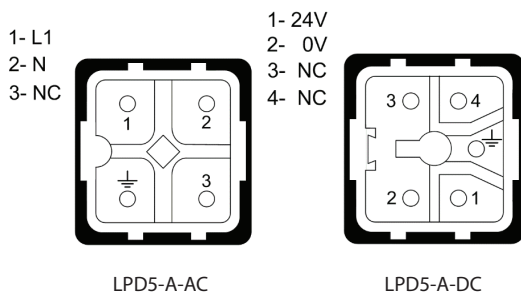
Scan or click the above QR code to be taken to the LPD5-A Series Manual

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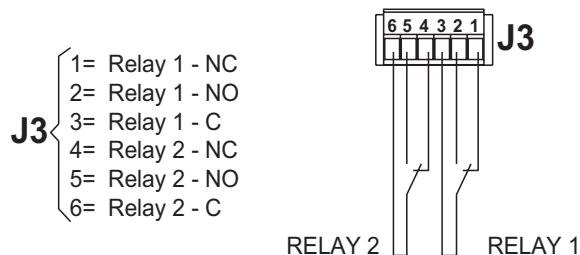
Technical Specifications Continued

Current Input	Range	± 20 mA DC
	Resolution	5µA
	Input impedance	12.1 Ω
Output Excitation	24VDC @ 100mA	
Output Relays (2 x SPDT)	Maximum current	Resistive load 5A Inductive load 5A
	Maximum voltage	60V AC/DC
Accuracy to 22° ±5°C	Maximum error	± (0.1% of reading + 3 digits)
	Temperature coefficient	100ppm/°C
	Warm up time	5 minutes
Conversion Method	Technique	Sigma-Delta
	Resolution	16 bits
	Rate	25 samples/s
Display	Over-range 5 digits	-OuE / OuE
	Parameter error. IP1 > IP2	E0
	Non input signal or polarity inverted	E2
	Over-range input signal	E3

Power Supply Wiring



Relay Output Wiring



SPDT contact

Maximum current: Resistive load, 5A

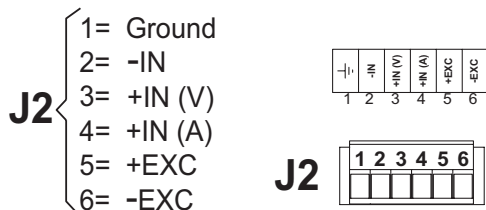
Inductive load, 5A

Maximum voltage: 60V AC/DC

Note: To guarantee electrical safety according to EN 61010-1 a protective external fuse must be installed.

Recommended fuse: 5A

Input Wiring



Wiring is dependent on configured input.

For additional wiring information see the LPD5-A series Insert or Manual.

Note: When not using relay outputs use an M20 plug, like the MBVPE-21-WNL, installed into the base of the provided terminal cover before installing to maintain IP rating.