



# PS-LDP Series

Liquid Differential Pressure Transmitters



## Overview

The PS-LDP Series differential pressure transmitter is designed with dual sensors that enables it to accept high pressure ranges (5 Psi to 500 Psi). All models can handle overload pressure two times (2x) and burst pressure five times (5x) the maximum full scale range.

## Applications

- ☐ Monitor pumps, filters and chillers
- ☐ HVAC Systems
- ☐ Refrigeration Systems

## Features & Benefits

- ☐ Economical
- ☐ Ease of installation
- ☐ Optional backlit (jumper selectable) LCD
- ☐ Unidirectional or bidirectional pressure range selection switch
- ☐ Push-button and remote zeroing terminal

## Model Selection

		PS-	LDP	0050PS	X				
Sensor	LDP = Liquid differential pressure								
Pressure Range	0050PS = 5, 10, 25 and 50PSI 0100PS = 10, 20, 50 and 100PSI 0200PS = 20, 40, 100 and 200PSI 0500PS = 50, 100, 250 and 500PSI 0005BA = 0.5, 1.0, 2.5 and 5.0Bar 0007BA = 0.75, 1.5, 3.75 and 7.5Bar 0010BA = 1, 2, 5 and 10Bar 0030BA = 3, 6, 15 and 30Bar 0500KP = 50, 100, 250 and 500kPa 0750KP = 75, 150, 375 and 750kPa 1000KP = 100, 200, 500 and 1000kPa 3000KP = 300, 600, 1500 and 3000kPa								
Display Option	D = Display								

# Product Specifications

## Environmental

Operating temperature	0°C to 50°C; 32°F to 122°F
Storage temperature	0°C to 50°C; 32°F to 122°F
Ambient humidity	10 to 95% Non-condensing

## Pressure Transmitter

Pressure Ranges	4 switch selectable ranges per model
Line Pressure	Max. line pressure is the highest of the selectable ranges on each model
Proof Pressure	Max. 2X highest range per model
Burst Pressure	Max. 5X highest range per model
Accuracy	± 1% F.S. of range selected with combined linearity, hysteresis, and repeatability
Pressure Cycles	>100 million
Surge Damping	Normal: 4 second averaging Slow: 8 second averaging, switch selectable
Sensor Operating Range	-40°C to 85°C; -40°F. to 185°F.
Compensated Range	0°C to 55°C; 32°F. to 130°F.
Stability	±0.25% typical (1 year)
Zero Adjust	Push-button auto-zero and digital input
Media Compatibility	17-4 PH Stainless Steel

## Enclosure

Material	Grey ABS hinged lid with gasket, IP65 (NEMA4X)
Dimensions	145 X 100 X 64 mm (5.7" X 3.95" X 2.5") Shock 100 G, 11 mSec, 1/2 Shine
Vibration	10 G peak 20 to 2000 Hz
Shipping Weight:	
PS-LDPXXXXXXX	0.95 lbs (2.09 kg)
PS-LDPXXXXXXD	1.05 lbs (1.31 kg)

## Electrical

Pressure Connections	1/8" NPT female
Power Supply	18 to 28 Vac/Vdc (non-isolated half-wave rectified)
Power Consumption	100 mA max @ 24 Vdc with LCD backlight, 35 mA with backlight disabled
Output Signals	3-wire transmitter; selectable 4-20mA active (sourcing), 0-5 or 0-10 Vdc

## LCD Display

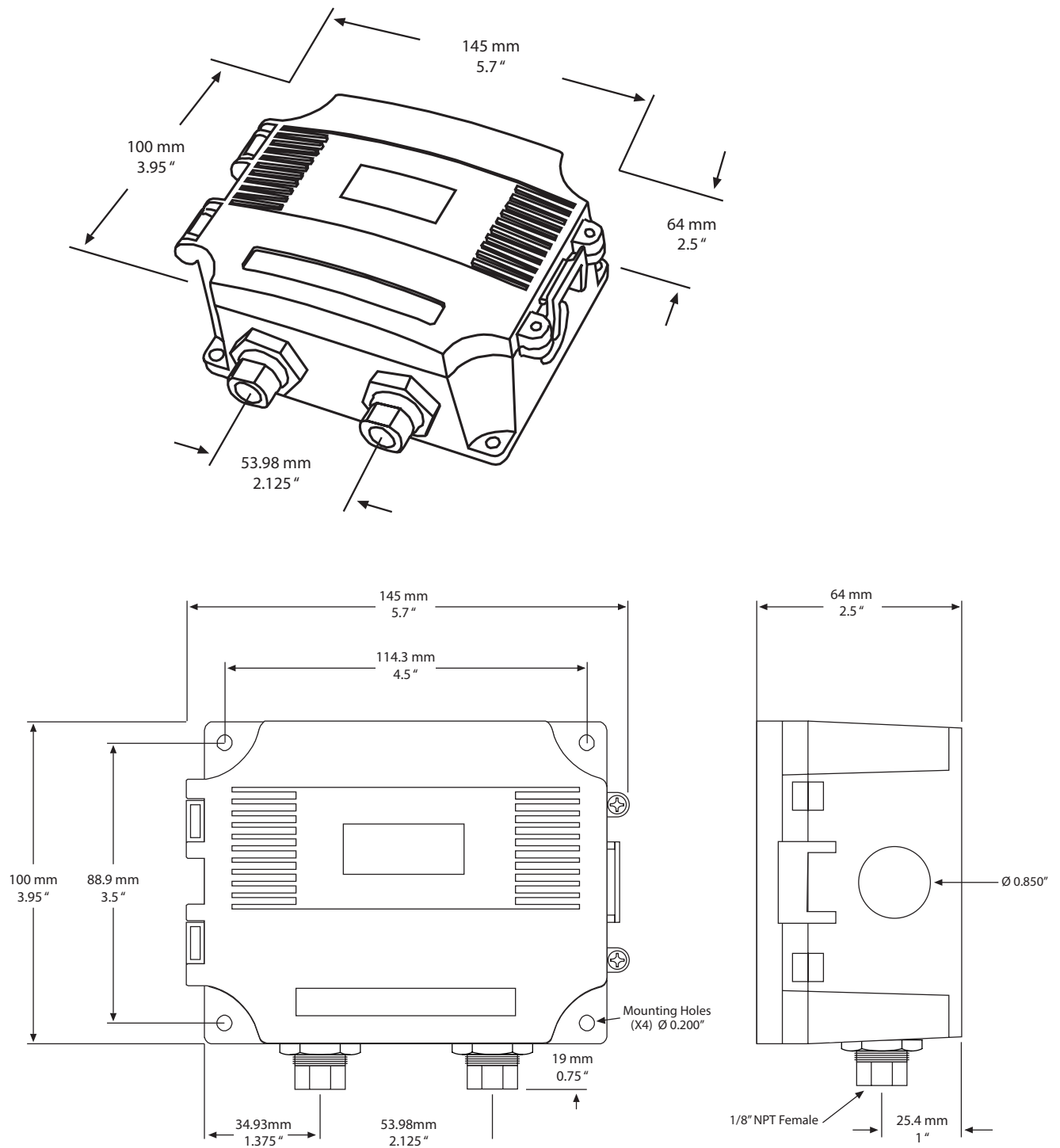
Display Size	35 mm x 15 mm (1.4" x 0.6")
Resolution	1 psi
Type	Alpha-Numeric 2 line x 8 Character
Backlight	Enable or disable via jumper

## Agency Approvals

Material <sup>1</sup>	UL94-5VB
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1. All materials and manufacturing processes comply with the RoHS directive

# Dimensions



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