



PS-2AEULDP Series

Economical Ultra Low Pressure Transmitter



Overview

The PS-2AEULDP can be used to measure positive, negative or differential pressure in the ranges of 25 Pa to 100 Pa and 0.1"wc to 0.4"wc.

The pressure sensor technology is based on thermal flow measurement of gas through a micro-flow channel within the sensor chip, which results in superior sensitivity for ultra low

pressures. The device features field selectable current or voltage output signal types and can be set for unidirectional or bidirectional pressure measurements for the most flexible application.

The output signal is factory calibrated and temperature compensated for highest start-up accuracy and trouble-free operation.

Applications

- ☐ Process controls
- ☐ Used for monitoring airflow
- ☐ Used for monitoring pressure drop across filters
- ☐ Used for monitoring building static pressure

Features & Benefits

- ☐ Economical
- ☐ Accurate pressure monitoring for increased comfort
- ☐ NEMA 4X enclosure
- ☐ Field selectable outputs

Model Selection

PS-2AEULDP0.1WC	Ultra low differential pressure, Economical, Nema4X, $\pm 0.1"$ & 0 - 0.1" WC ranges & selectable outputs
PS-2AEULDP0.2WC	Ultra low differential pressure, Economical, Nema4X, $\pm 0.2"$ & 0 - 0.2" WC ranges & selectable outputs
PS-2AEULDP0.4WC	Ultra low differential pressure, Economical, Nema4X, $\pm 0.4"$ & 0 - 0.4" WC ranges & selectable outputs
PS-2AEULDP025PA	Ultra low differential pressure, Economical, Nema4X, ± 25 & 0 - 25 Pa ranges & selectable outputs
PS-2AEULDP050PA	Ultra low differential pressure, Economical, Nema4X, ± 50 & 0 - 50 Pa ranges & selectable outputs
PS-2AEULDP100PA	Ultra low differential pressure, Economical, Nema4X, ± 100 & 100 Pa ranges & selectable outputs

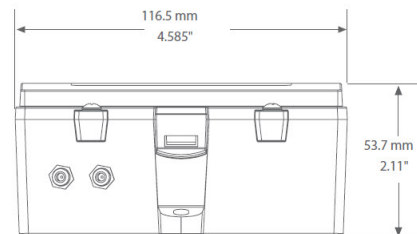
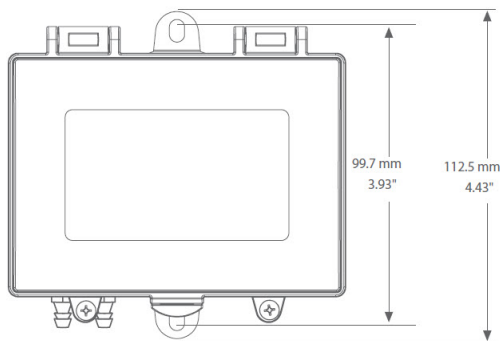
Product Specifications

Accuracy	±1% F.S.O.
Pressure Range	±0.1 / 0-0.1 "WC; ±0.2 / 0-0.2 "WC; ±0.4 / 0-0.4 "WC ±25 / 0-25 Pa; ±50 / 0-50 Pa; ±100 / 0-100 Pa
Stability	<±0.1% F.S. @ 22°C (72°F) including hysteresis, non-linearity and repeatability
Thermal Effects	±0.2% of reading / 10°C (-20 to 85°C) typical
Response Time	250 ms
Proof Pressure	200 kPa (30 PSI)
Burst Pressure	500 kPa (75 PSI)
Operating Conditions	0 to 50°C (32 to 122°F), 5 to 90 %RH, non-condensing
Media Compatibility	Dry air or Intert gas
Power Supply	24 Vac/dc ±20% (non-isolated half-wave rectified)
Supply Current	Current: 20 mA / Voltage: 10 mA
Protection Circuitry	Reverse voltage protected and output limited
Output Signal	4-20 mA (3-wire) or 0-10 Vdc (field selectable)
Output Drive @ 24VDC	Current: 500 Ω max @ 24 Vdc / Voltage: 10K Ω min
Storage Temperature	-20 to 85°C (-4 to 185°F)
Wiring Connections	Screw terminal block (14 to 22 AWG)
Pressure Connection	Barbed ports for 1/8" to 3/16" ID tubing
Conduit Connection	1/2" NPT conduit or cable gland
Enclosure	B: Grey Polycarbonate UL94-V0, IP65 (NEMA 4X) F: Same as B, with thread adapter (1/2" NPT to M16) and cable gland fitting
Approvals	CE, ROHS
Country of Origin	Canada

RoHS
COMPLIANT



Dimensions



Measurements in millimeters (mm)

Specifications subject to change without notice.
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