

PTP100

0 to 100 PSIG Pressure Sensor with Proportional Analog Current or Voltage Output

FEATURES

- 100% Solid State
- Linear Output
- Senses 0 to 100 psig Air Pressure
- LED Power Indicator
- Anodized Aluminum Manifold with Gauge Port
- Jumper Selectable Output
- Plug-in Terminal Strip - Easy Accessibility
- Optional snap track mounting offered for DIN rail or multiple PTP100 units

APPLICATIONS

- Building Automation
- Process Control
- Pneumatic System Monitoring
- Pneumatic to Proportional Analog Output



ENC1 Enclosure



DRC DIN Rail Adapter

PRODUCT DESCRIPTION

The PTP100 accepts a 0 to 100 psig pneumatic pressure input and converts it to one of four proportional analog output ranges of 1-5, 2-10, 3-15 VDC or 4-20 mA which are jumper shunt selectable. Output has 60 second short circuit protection. PTP100 is a positive current output

device that is fully temperature compensated. A plugged gauge port is provided in the aluminum manifold for local mechanical indication, if required. The PTP100 is designed to fit a 2.25" (provided) or 3.25" snap track and will accept standard 1/4" O.D. plastic tubing.

ORDERING INFORMATION

Specify: **PTP100** with _____ **ENC1 Enclosure?** _____ **DRC Kit?**

All factory calibrated products are NIST traceable. Certificates of Compliance must be ordered with products.

SPECIFICATIONS

Electrical Requirements

Power Supply

Supply Voltage Regulated 24 VDC (+/- 10%) or 24 VAC (+/- 10%)
 Supply Current 50 mA maximum @ 24 VDC.

Output

Voltage Range 1 to 5 VDC @ 250 ohms minimum.
 2 to 10 VDC @ 500 ohms minimum.
 3 to 15 VDC @ 750 ohms minimum.
 Current Range 4 to 20 mA @ 500 ohms maximum (factory calibration).
 Short Circuit Protection Duration: 60 seconds

Accuracy 1% full scale at room temperature.
2% full scale across operating temperature range

Mechanical Requirements

Input

Pressure Range (factory set) 0 to 100 psig (110 psig maximum overpressure)

Connections

Wire Size Up to one 14 gauge maximum
Terminal Type Removeable terminal strip, plugs on four (4) square 5 mm pins, captive screw with cage clamp in tin plated brass.

Pneumatic Fitting Type Aluminum silver anodized manifold with brass barbed fitting for tubing connection

Pneumatic Tubing Size/Type Supplied with plugged 1/8"-27 FNPT gauge port
1/4" O.D. nominal polyethylene

Dimensions

3.25" L x 2.325" W x 1.5" H

Weight

3 oz

Mounting Furnished with a 3.25" length of 2.25" snap track (HWST003)

Additional Mounting Options:

Optional DIN Rail Mounting: Order DRC kit and DIN Rail compliant HWST031 snap track - specify when ordering.

Optional: Two (2) 24" sections of 3.25" snap track for multiple PTP100 mounting - specify HWST001 when ordering.

Environmental Requirements

Operating Temperature Range 32 to 120 deg F

Storage Temperature Range -20 to 150 deg F

Operating Humidity Range 10 to 95% non-condensing

Call for Other Calibration Ranges and Versions