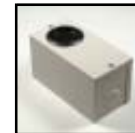


Analog Current or Voltage Input to 100 psig Pneumatic Output

FEATURES

- 0 to 100 psig Output
- Field selectable analog input ranges
- Analog feedback on branch pressure
- Closed Loop Control, 1% accuracy at room temperature
- Maintains branch line pressure on power outage
- Uses solid state transducer
- Not Position Sensitive
- Black anodized machined aluminum manifold with gauge port, tapped for 1/8" NPT main and branch fittings.



ENC1
Enclosure



DRC
DIN Rail
Adapter

PRODUCT DESCRIPTION

The PXP100 is an electric to pneumatic transducer which converts an analog electrical input signal to a proportional pneumatic output. The PXP100 will automatically modulate its control valves to regulate the branch line pressure to the selected set point as determined by the input signal.

The PXP100 offers four selectable input ranges of 0 to 5, 0 to 10, 0 to 15 VDC and 0-20 mA that produce a 0 to 100 psig modulating output.

A 0-5 VDC feedback signal indicating the resultant branch line pressure, is also provided. This signal varies linearly with branch

pressure (0 volts = 0 psig, 5 volts = 100 psig/ 689.5 kPa).

The PXP100 incorporates two valves and does not use air at set point. It's branch exhaust flow and response time are not limited by an internal restrictor and are similar to its load rate.

If power fails to the PXP100, branch line pressure remains constant as long as the branch line does not leak air.

ORDERING INFORMATION

Specify: **PXP100** with _____ **ENC1** Enclosure? _____ **DRC Kit**?

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

SPECIFICATIONS

Electrical Requirements

Power Supply: Voltage	24 VDC or 24 VAC (+/- 10%).
Power Supply: Current	150 mA maximum
Input: Range and Impedance	Four selectable ranges: 0 to 5 VDC@10,000 ohms. 0 to 10 VDC @10,000 ohms. 0 to 15 VDC@10,000 ohms. 0 to 20 mA @250 ohms.
Manual Override	When MAN jumper is selected, output can be varied from potentiometer. Full CCW = 100 psig (689.5 kPa), and full CW = 0 psig.
Feedback: Output Signal Range	0 to 5 VDC = 0 to 100 psig (689.5 kPa).

Mechanical Requirements

Air Supply

Supply Pressure

102 psig (710.2 kPa) to 106 psig (730.8 kPa) typical, 110 psig (758.4 kPa) maximum.

Filtering:

By customer.

Output

Pressure Range

0 to 100 psig (689.5 kPa).

Accuracy

1% full scale at room temperature.

3% full scale across operating temperature range.

Pneumatic Capacity

Air Flow:

Supply valves @ 100 main (689.5 kPa)/95 psig (655 kPa) out, 750 scim (12.29 liters). Branch line requires 4 cubic inches (65.54 cc) minimum volume.

Connections

Wire Size

Up to one 14 AWG wire per terminal.

Terminal Type

45° or 90° access terminal blocks, captive screw, moving clamp design in nickel plated copper alloy, with 5mm spacing.

Pneumatic Fitting Type

Anodized aluminum manifold tapped for customer supplied 1/8" NPT fittings. Manifold has plugged 1/8"-27 FNPT gauge port.

Dimensions

3.25" (8.255 cm) L x 2.325" (5.906 cm) W x 1.5" (3.81 cm) H.

Weight

6 oz. (170.1 grams).

Mounting

Furnished with 2.375" (6.033 cm) length of 8TK (2.20" or 5.588 cm) snap track (ENC1 optional).

Environmental Requirements

Operating Temperature Range

32 to 120 deg F (0 to 48.89 C)

Storage Temperature Range

-20 to 150 deg F (-28.89 to 65.56 C)

Operating Humidity Range

5 to 95% non-condensing

Specifications may change without notice to improve product performance or functionality.