



PXP

Input

Analog

Output

Pressure

Analog Current, Voltage Input to Pneumatic Output

The PXP*.3 is an electric to pneumatic transducer which converts an analog electrical input signal to a proportional pneumatic output. The PXP*.3 will automatically modulate its control valve(s) to regulate the branch line pressure to the selected set point as determined by the input signal. The PXP*.3 offers four selectable input ranges of that produce a 0 to 15 psig modulating output (See EPC product for 0 to 20 psig outputs). A 0-5 VDC feedback signal indicating the resultant branch line pressure is also provided. The PXP0.3 is a single valve version that does not bleed or exhaust air. Its operation depends on the pneumatic circuit where it is installed to consume between 14 and 73 scim. The PXP1.3, 5.3, and 7.3 are constant bleed controllers with branch exhaust response time determined by the bleed orifice size and pressure differentials (see ordering information). If power fails, the PXP1.3, 5.3, or 7.3 will continue to bleed through the bleed orifice until branch pressure is zero psig.

The PXP*.3 is covered by ACI's Two (2) Year Limited Warranty. The warranty can be found in the front of ACI's Sensors & Transmitters catalog, as well as on ACI's web site, www.workaci.com.





SPECIFICATIONS

Supply Voltage	24 VDC (+ 10%/- 5%) 24 VAC (+/- 10%)
Supply Current	160 mA maximum, 200 mA maximum on fail-safe model
Input	Range and Impedance: 0-5 VDC @ 10,000Ω, 0-10 VDC @ 10,000Ω, 0-15 VDC @ 10,000Ω, 0-20 mA @ 250Ω When MAN jumper is selected, Output Varies from Potentiometer
Feedback Output Signal Range	0-5 VDC = 0-15 psig
Supply Pressure	Maximum 25 psig, minimum 18 psig
Output Pressure Range	0 to 15 psig
Accuracy	1% full scale at room temperature 2% full scale across operating temperature range
Air Flow	Supply valves @ 20 psig (138 kPa) main/15 (103 kPa) out, 750 scim standard, 1400 scim LG version. Branch line requires 2 cubic inches minimum (25' Min 1/4" Tubing)
Filtering	Furnished with integral-in-barb 80-100 micron filter (Part # PN004) Optional standard barb (PN002) with external 5 micron in-line filter (PN021) provides 1400 scim rate (LG version)
Operating Temperature	32 to 120°F (0 to 48.9°C)
Operating Humidity Range	5 to 95% non-condensing
Product Dimensions	(L) 3.75" (W) 2.37" (H) 1.87"

ORDERING

Please select a Version (A) & a Gauge (B). If "2.3" is selected as a Version (A), proceed to (B) and (C). Choose an Optional Accessory (1) if desired.

A Version **B** Gauge

- 0.3** (1 Valve: no bleed, no air consumption) (requires downstream bleed) (Only complete (B))
 - 1.3** (1 Valve: .010" bleed orifice 750 scim supply, 73 scim exhaust) (Only complete (B))
 - 2.3** (2 Valve: maintains branch pressure 750 scim supply & exhaust) (Complete (B) & (C))
 - 5.3** (1 Valve: .005" bleed orifice 750 scim supply & 14 scim exhaust) (Only complete (B))
 - 7.3** (1 Valve: .007" bleed orifice 750 scim supply, 41 scim exhaust) (Only complete (B))
- (None)
 - G** (Gauge) (0-30 psi)

C PXP 2.3 Options

- (None)
- FS** (Exhausts on power failure, 750 scim supply, 750 exhaust)
- LG** (2 Valve: maintains branch on power loss, 1400 scim supply & exhaust) (Includes Gauge; (B) should be left blank in part number)

1 Optional Accessories

- (None)
- ENC1** (ENC1 Enclosure)
- DRC** (Din Rail Mounting)

BUILD PART NUMBER

After completing (A), (B) & (C) from the above table, fill in the Part Number Table below. (1) is an Optional Accessory. The "Sensor Series" is a factory default. An example part number is offered.

PXP

SENSOR SERIES	A	B	C
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EXAMPLE: PXP2.3LG

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EXAMPLE: ENC1

