**SERIES EPTA | PROXIMITY® BY DWYER**

**ELECTRO-PNEUMATIC TRANSUCERS**

Low Cost, Selectable Input/Output, Manual Override

The Series EPTA Electro-Pneumatic Transducers convert an analog input signal to a linearly proportionate pneumatic output by modulating its control valves to regulate branch line pressure to the set point determined by the input signal. All models incorporate two low voltage valves, an integral in-barb filter, a 0 to 30 psi analog gage, an anodized aluminum manifold, and brass barbed fittings. The EPTA offers adjustable span and offset as well as manual override. This unit has no air consumption and is immune to mounting orientation. Output pressure ranges include field-selectable 0 to 10, 0 to 15, and 0 to 20 psig. Also included is an analog 0 to 5 VDC feedback signal indicating the resultant branch line pressure. Universal 24 VAC/24 VDC supply voltage and field-selectable 4 to 20 mA, 0 to 5 VDC, 0 to 10 VDC, or 0 to 15 VDC inputs ensure single unit compatibility with most systems. The standard models maintain branch pressure on power loss while the Fail-Safe models will drop the branch pressure to 0 psi on power loss. Mounting configurations include a metal bracket mount in the EPTA-B models and a snap-track mount in the EPTA-S models. The A-400 accessory kit will allow the EPTA-S models to be mounted on a standard DIN rail.

**FEATURES/BENEFITS**

- Adjustable span and offset
- Manual override
- Field selectable output ranges
- Not position sensitive

**APPLICATIONS**

- Pneumatic dampers and valve actuators

**SPECIFICATIONS**

Service: Clean dry air or any inert gas.
Input Signal: DC current (4 to 20 mA) or DC voltage (0-5/0-10/0-15).
Input Impedance: Current: 250 Ω; Voltage: Infinite.
Output Signal: Jumper selectable 0 to 10 psig (0 to 69 kPa), 0 to 15 psig (0 to 103 kPa), or 0 to 20 psig (0 to 138 kPa).
Feedback Output: 0 to 5 VDC.
Air Supply: 25 psi (172 kPa) max.
Air Consumption: 0 scim normal operation, fail-safe model vents to 0 psi on power loss.
Accuracy: ± 0.0% FS @ room temperature; ±2.0% FS @ 32 to 120°F (0 to 48.8°C).
Supply Voltage: 24 VDC (+10%/-5%) or 24 VAC (+10%) @ 50/60 Hz.
Supply Current: 180 mA max, 200 mA max on fail-safe model.
Temperature Limits: Operating: 32 to 120°F (0 to 48.8°C); Storage: -20 to 150°F (-7 to 65.6°C).
Operating Humidity Range: 5 to 95%, non-condensing.
Pressure Connections: 1/4” OD (polyethylene tubing optimum).
Electrical Connections: Plug-in block terminal type with 5 mm pin spacing.
Wire Size: Up to one 14 AWG per terminal.
Weight: EPTA-S0: 6.9 oz. (196 g); EPTA-S1: 9.2 oz. (261 g); EPTA-S: 14.5 oz. (411 g).

**ACCESSORIES**

- DIN mounting kit
- Replacement integral barb filter

**USA: California Proposition 65**

⚠️ WARNING: Cancer and Reproductive Harm - www.P65Warnings.ca.gov

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**SERIES IP | PROXIMITY® BY DWYER**

**CURRENT TO PRESSURE TRANSUDER**

Intrinsically Safe, NEMA 4X Enclosure, Field Reversible, Low Cost

The Series IP Current to Pressure Transducer converts a current input signal to a linearly proportional pneumatic output pressure. The features include built-in volume booster, low air consumption, field reversible (provides output which is inversely proportional to input signal) and flexible zero and span adjustments. The rugged NEMA 4X enclosure allows splashdown and outdoor installation. The IP can be used for applications that require operation of valve actuators, pneumatic valve positioners, damper and louver actuators, final control elements, relays, air cylinders, web tensioners, clutches, brakes and other pneumatic equipment.

**FEATURES/BENEFITS**

- Built-in volume booster
- Low air consumption
- Flexible zero plus span adjustments
- NEMA 4X enclosure
- Field reversible

**APPLICATIONS**

- Applications that require the operation of valve actuators, pneumatic valve positioners, damper and louver actuators, final control elements, relays, air cylinders, web tensioners, clutches and brakes

**SPECIFICATIONS**

Service: Oil free, clean dry air filtered to 40 microns.
Input Signal: 4 to 20 mA.
Input Impedance: IP-42: 180 ohms; IP-43 and IP-44: 220 Ω.
Input Pressure: Min. 3 psig (21 kPa) above max output; Maximum: 100 psig (700 kPa).
Linearity: ± 0.75% of span.
Hysteresis: < 1% of span.
Repeatability: < 0.5% of span.
Supply Pressure Sensitivity: < ±0.1% of span per psig (< ±0.15% of span per 10 kPa).
Power Requirements: Loop powered.
Temperature Limits: -20 to 140°F (-30 to 60°C).
Pressure Connections: 1/4” female NPT.
Electrical Connection: 1/2” female NPT.
Air Consumption: 0.03 SCFM (0.5 m3/h) typical.
Output Capacity: 4.5 SCFM (7.6 m3/h ANR) at 25 psig (175 kPa) supply; 2 SCFM (20 m3/h) at 100 psig (700 kPa) supply.
Relief Capacity: 2 SCFM (3.4 m3/h) at 5 psig (35 kPa) above 20 psig (140 kPa) setpoint.
Weight: 2.1 lb (0.94 kg).
Agency Approvals: CE, FM.