Dwyer

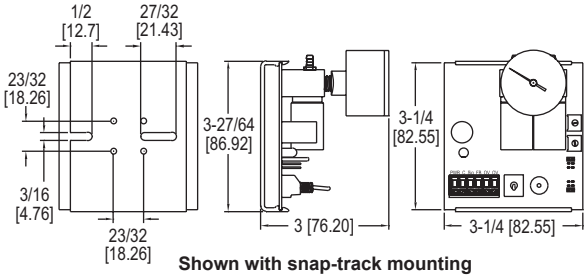
SERIES EPTA | PROXIMITY® BY DWYER

ELECTRO-PNEUMATIC TRANSDUCERS

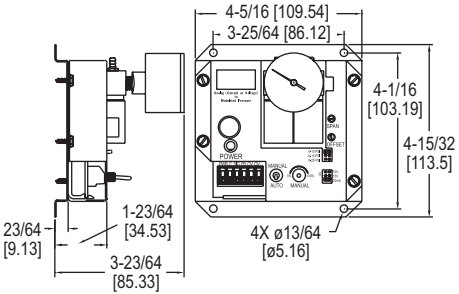
Low Cost, Selectable Input/Output, Manual Override

EPTA-B

EPTA-S



Shown with snap-track mounting



Shown with metal bracket mounting

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 psig (172 kPa) max.
Air Flow: 750 scim.
Air Consumption: 0 scim normal operation, fail-safe model vents to 0 psi on power loss.
Accuracy: ±1.0% 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 (-6.7 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-B: 14.5 oz. (411 g).

MODEL CHART

Model	Description	Price
EPTA-S0	Standard snap-track mount transducer	**$236.00**Ⓑ
EPTA-B0	Standard metal bracket mount transducer	**249.00**Ⓑ
EPTA-S1	Snap-track mount transducer with fail-safe	**298.00**Ⓑ
EPTA-B1	Metal bracket mount transducer with fail-safe	**308.00**Ⓑ

Ⓑ Items are subject to Schedule B discounts.

ACCESSORIES

Model	Description	Price
A-400	DIN mounting kit	**$5.80**Ⓑ
A-403	Replacement integral barb filter	**5.80**Ⓑ

Ⓑ Items are subject to Schedule B discounts.

USA: California Proposition 65
⚠WARNING: Cancer and Reproductive Harm - www.P65Warnings.ca.gov