Electro-Pneumatic Transducer
Low Cost, Selectable Input/Output, Manual Override

The Series EPTA is an electric to pneumatic transducer that converts 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 gauge, 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.

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>EPTA-S0</td>
<td>Standard Snap-Track Mount Transducer</td>
</tr>
<tr>
<td>EPTA-B0</td>
<td>Standard Metal Bracket Mount Transducer</td>
</tr>
<tr>
<td>EPTA-S1</td>
<td>Snap-Track Mount Transducer with Fail-Safe</td>
</tr>
<tr>
<td>EPTA-B1</td>
<td>Metal Bracket Mount Transducer with Fail-Safe</td>
</tr>
</tbody>
</table>

Accessories

- A-400, DIN Mounting Kit
- A-403, Replacement Integral Barb Filter

The Model PI Pressure To Current Transducer converts a pneumatic input pressure to an accurately proportional output current with uncompromising accuracy and durability. The PI serves in high density and panel-mounted applications. The rugged PI transducer offers a high density DIN rail adapters and space saving with easy plug-in installation.

<table>
<thead>
<tr>
<th>Model</th>
<th>Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>PI-1</td>
<td>3 to 15 psig (20 to 100 kPa)</td>
</tr>
<tr>
<td>PI-2</td>
<td>3 to 27 psig (20 to 180 kPa)</td>
</tr>
</tbody>
</table>

PI-C, Replacement DIN Rail Adapter

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% full-scale @ room temperature; ±2.0% full-scale @ 32°F (0°C) to 120°F (48.8°C).
- Supply Voltage: 24 VDC (±10%) 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 (-28.9 to 65.6°C).
- Operating Humidity Range: 5 to 95%, non-condensing.
- Zero: ±0.007% of span per °F max.
- Hysteresis: ±0.15% of span max.
- Linearity: ±0.015% of span.
- Power Requirements: 10 to 42 VDC.
- Temperature Stability: Span and Zero: ±0.007% of span per °F max. deviation from 77°F calibration.
- Calibration Adjustments: Non-interactive, multi-turn span and zero potentiometers with approximately ±10% of span adjustment range.

Accessories

- A-400, DIN Mounting Kit
- A-403, Replacement Integral Barb Filter

Electrical Connections: Plug-in block terminal type with 5 mm pin spacing.

Pressure Connections: 5/16˝ NPT female; Signal Air: 1/8˝ NPT female; Clean dry air or any inert gas.

Power Requirements: 10 to 42 VDC.

Specify Type: 0-10 or 4-20 mA.

Input Signal: 3 to 15 psig and 3 to 27 psig.

Output: 2-wire: 4 to 20 mA.

Expansion: ±0.015% of span.

Response Time: 10 ms to 99% of step change.

Weight: 0.5 lb (0.2 kg).