The IP411 and IP413 accept 4 to 20 mA, 0 to 10V, and 0 to 5V signals and convert these analog signals to proportional linear pneumatic outputs (3 to 15 or 0 to 20 psi). Unlike other units that bleed air to maintain pressure, the IP411 and IP413 use a silicon pressure sensor and an electropneumatic converter to provide the desired pneumatic pressure without constant air consumption. The converter’s unique design eliminates common problems such as hose chatter and needless air consumption from air leaks caused by heat, age, moisture, contamination, mounting, orientation error, sticky valves, valve leakage, and blockages. The IP411 and IP413 provide a reliable, repeatable, and accurate means of converting an electrical signal into a pneumatic pressure. A sourcing controller is required.
**ELECTROPNEUMATIC CONVERTERS**

**SPECIFICATIONS**
Supply Voltage: 18 to 28 Vdc or Vac
Supply Current: 150 mA/3 VA
Accuracy: 1% FS
Zero Adjustment: ±50%
Span Adjustment: ±25%
Operating Temp: 0 to 70°C (32 to 160°F)
Compensated Temp: 0 to 70°C (32 to 160°F)
Thermal Effects:
- Zero: ±0.025% FS/°F
- Span: ±0.01% FS/°F
Max Supply Pressure: 40 psig
Min Supply Pressure: 0.1 psig above maximum control pressure
Solenoid Type: Floating poppet
Solenoid Coil: 3 W
Flow Rate: 0.5 SCFM
Pressure Port: Hose barb fits 4.76 mm (% in) ID tubing
Minimum Control Pressure Tubing
Length: 3 m (10')
Electrical Connector: Screw terminals
Weight: 350 g (12 oz)
Manifold Material: Aluminum
Case: 16-gage steel

<table>
<thead>
<tr>
<th>MODEL NO.</th>
<th>INPUT RANGES</th>
<th>OUTPUT RANGE</th>
<th>MANUAL OVERRIDE</th>
</tr>
</thead>
<tbody>
<tr>
<td>IP411-X15</td>
<td>4 to 20 mA, 0 to 5V, 0 to 10V</td>
<td>3 to 15 psig</td>
<td>No</td>
</tr>
<tr>
<td>IP411-020</td>
<td>4 to 20 mA, 0 to 5V, 0 to 10V</td>
<td>0 to 20 psig</td>
<td>No</td>
</tr>
<tr>
<td>IP413-X15</td>
<td>4 to 20 mA, 0 to 5V, 0 to 10V</td>
<td>3 to 15 psig</td>
<td>Yes</td>
</tr>
<tr>
<td>IP413-020</td>
<td>4 to 20 mA, 0 to 5V, 0 to 10V</td>
<td>0 to 20 psig</td>
<td>Yes</td>
</tr>
</tbody>
</table>

**ACCESSORY**
TX4-100  30.48 m (100') of 4-conductor shielded wire

Comes complete with operator’s manual.
Ordering Example: IP413-X15, electropneumatic converter with 3 to 15 psig output and manual override, TX4-100, 30.48 m (100') of 4-conductor wire.