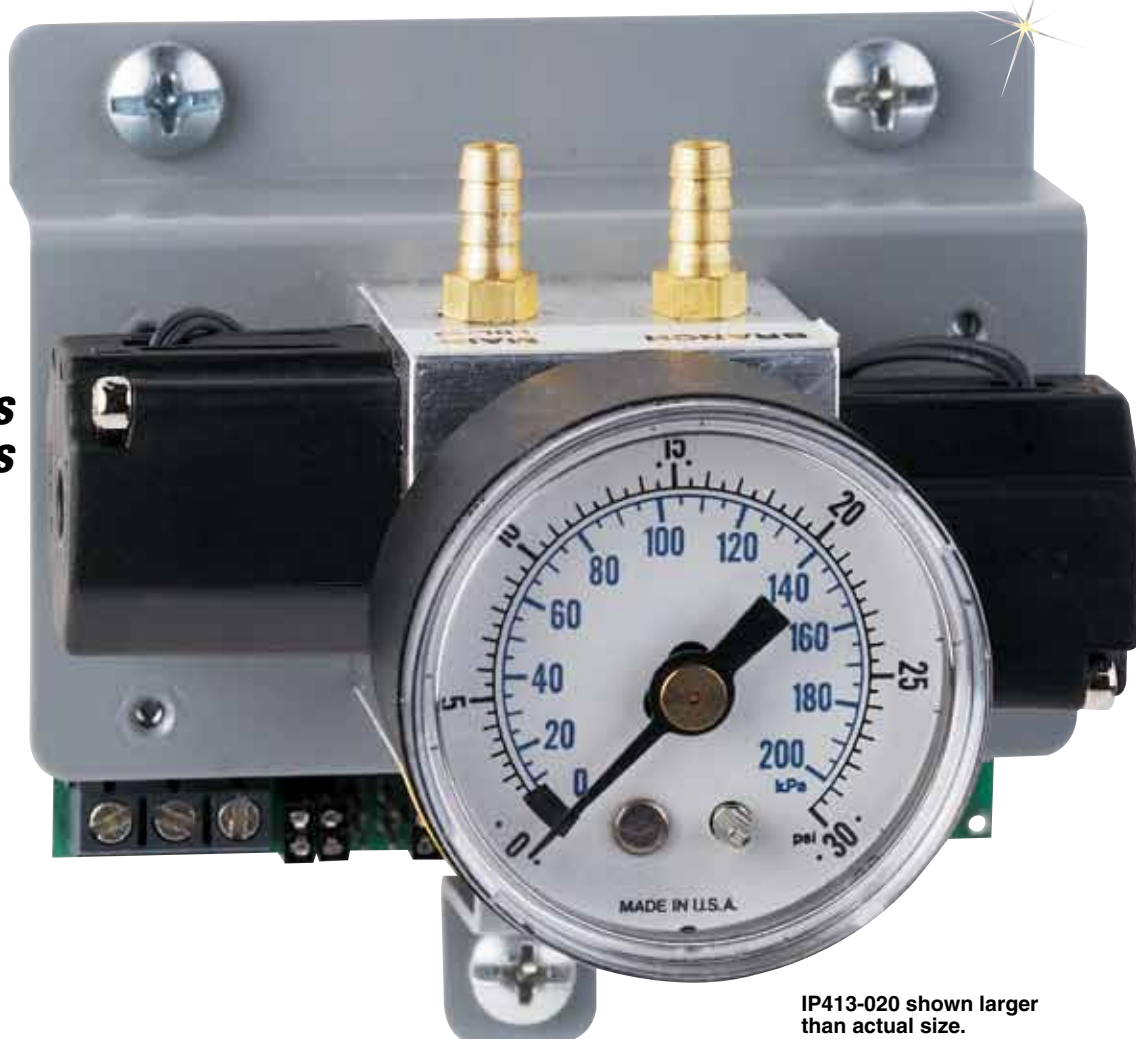


# ***ELECTROPNEUMATIC CONVERTERS*** ***CURRENT TO PRESSURE (I/P)***

***IP411 Series***  
***IP413 Series***



**IP413-020 shown larger than actual size.**

- ✓ **Integral Dial Control Pressure Indicator**
- ✓ **Manual Override Available**
- ✓ **Solenoid Valve Design Eliminates Leaks**
- ✓ **Can be Used with Unfiltered Main Air Supply**
- ✓ **Zero and Span Adjustments for Field Calibration**

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 ( $\frac{3}{16}$ " ID tubing

**Minimum Control Pressure Tubing Length:** 3 m (10')

**Electrical Connector:** Screw terminals

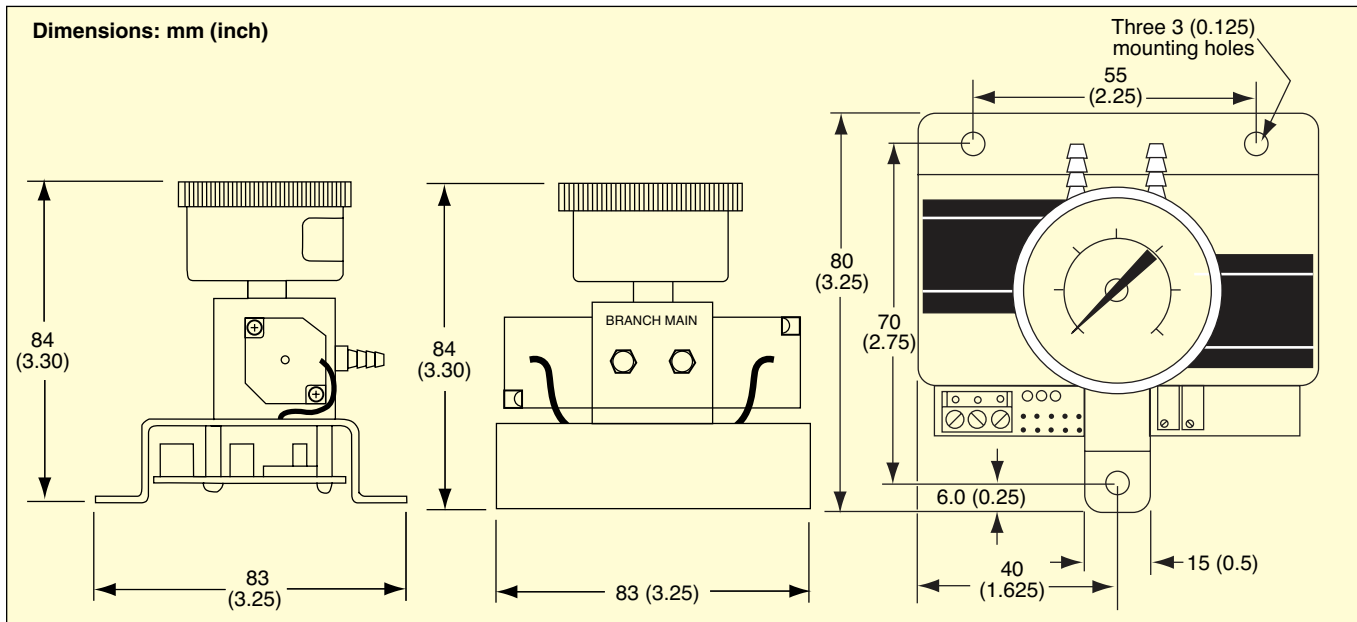
**Weight:** 350 g (12 oz)

**Manifold Material:** Aluminum

**Case:** 16-gage steel



Order with TX4-100 shielded wire, cost per 100'. Shown smaller than actual size.



VALVES AND REGULATORS

## To Order

MODEL NO.	INPUT RANGES	OUTPUT RANGE	MANUAL OVERRIDE
IP411-X15	4 to 20 mA, 0 to 5V, 0 to 10V	3 to 15 psig	No
IP411-020	4 to 20 mA, 0 to 5V, 0 to 10V	0 to 20 psig	No
IP413-X15	4 to 20 mA, 0 to 5V, 0 to 10V	3 to 15 psig	Yes
IP413-020	4 to 20 mA, 0 to 5V, 0 to 10V	0 to 20 psig	Yes
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.