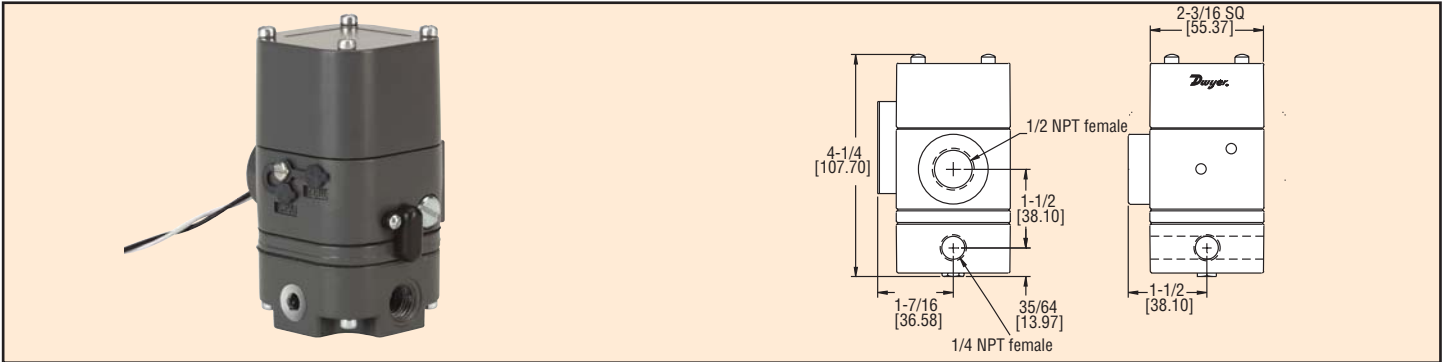




Series
IP

Current to Pressure Transducer

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 and brakes.

MODELS

Model Number	Input Ranges	Output Range	
		psi	kPa
IP-42	4-20 mA	3-15	20-100
IP-43	4-20 mA	3-27	20-185
IP-44	4-20 mA	6-30	40-200

SPECIFICATIONS

Service: Oil free, clean dry air filtered to 40 microns.
Input Signal: 4-20 mA.
Input Impedance: IP-42: 180 ohms; IP-43 and IP-44: 220 ohms.
Air Pressure: Minimum: 3 psig (21 kPa) above maximum output; Maximum: 100 psig (700 kPa).
Linearity: $< \pm 0.75\%$ of span.
Hysteresis: $< 1\%$ of span.
Repeatability: $< 0.5\%$ of span.
Supply Pressure Sensitivity: $< \pm 0.1\%$ of span per psig ($< \pm 0.15\%$ 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; 12 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.

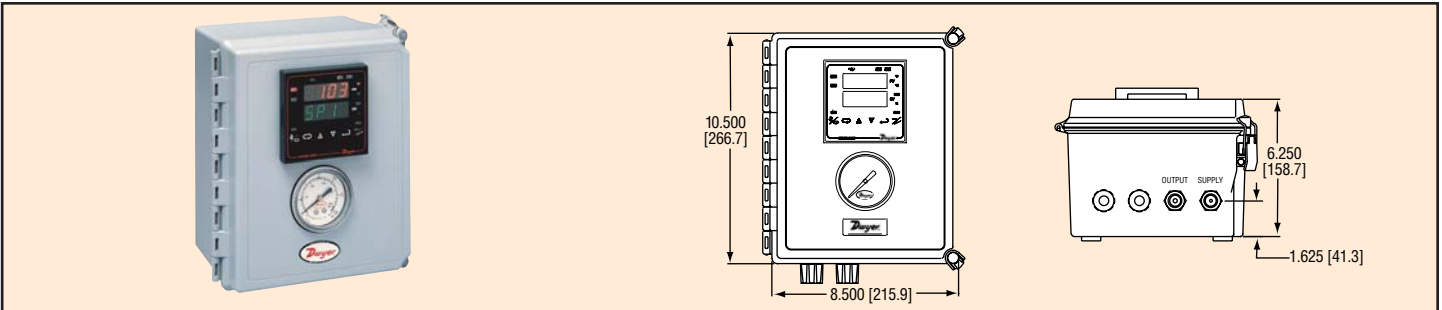
Valves



Model
EP1000

Electro-pneumatic Controller

Low Cost, Easy Installation, Weatherproof, Fully Programmable Controller



Stop wasting time and money trying to find a suitable location to mount your controller and current to pressure transducer - The Model EP1000 Electro-pneumatic Controller combines the highest quality instrumentation in one compact NEMA 4X enclosure for easy, low cost installation. Simply provide a supply pressure and voltage with a standard thermocouple, RTD, DC voltage or DC current input to this unit and a traditional pneumatic process quickly converts to a state-of-the-art electronic operation. The versatile microprocessor based controller incorporates a high level of standard features. Typical function setup items appear in the control menu only when the function is selected, so you don't have to wade through unnecessary items. Standard features include Self-Tune[®], Fuzzy Logic, fully adjustable PID and Auto/Manual control with bumpless transfer. Combine this versatile controller with the Hi-Flow[®] Valve for excellent process operation in industries like food and beverage processing, pulp and paper, chemical and pharmaceutical.

Model EP1000

SPECIFICATIONS

Front Panel Selectable Inputs: Thermocouple, RTD, DC voltage or DC current.
Input Impedance: Thermocouple - 3 Megohms min. Voltage - 5000 ohms. Current - 10 ohms. RTD Current - 200 μ A max.
Supply Pressure: 20 psig (1.4 kg/cm²) minimum, 100 psig (7.0 kg/cm²) maximum.
Output: 3-15 psig (.21-1.1 kg/cm²).
Accuracy: $\pm 1.0\%$ of span.
Linearity: $\pm 0.75\%$ of span.
Hysteresis: $\pm 0.5\%$ of span.

Repeatability: $\pm 0.5\%$ of span.
Power Requirements: 100 to 240 VAC nominal, $\pm 10\%$, 50 to 400 Hz., single phase; 132 to 240 VDC, $\pm 10\%$.
Temperature Limits: 14 to 130°F (-10 to 55°C).
Pressure Connections: 1/4" female NPT (supply and output).
Air Consumption: 0.1 scfm (.05 l/s) @ 100 psig.
Output Capacity: 4.0 scfm (1.9 l/s).
Enclosure: NEMA 4X.
Weight: 8 lb 2 oz (3.69 kg).