MINIATURE I/P & E/P **MODEL 612000** 

# **DIN RAIL MOUNT** MINIATURE I/P & E/P



#### **FEATURES**

- Small footprint, compact size
- Built-in volume booster
- Large screw terminal connections
- Input and output connections on rear and front
- Low air consumption
- Vibration resistant
- FM, CSA, CENELEC intrinsically safe
- Field reversible
- Meets European electromagnetic compatibility standards: CE **OPTIONS**
- NEMA 4X rated unit available with 1/2" NPT connector (Model 612001)
- Manifold mounting

#### ORDERING INFORMATION

The Model 612000 DIN Rail Mount E/P or I/P

Transducer is available with the following input/output

Input: 4-20mA, 0-5 VDC, 1-9 VDC, 1-10 VDC, or 0-10 VDC

Output: 3-15 psig or 3-27 psig

How to Order:

Specify model number, input, and output range. Example:

612000

Input: 4 to 20 mA Output: 3-15 psig

The Model 612000 is a new series of electro-pneumatic transducers that converts an electrical signal to a proportional output and uses a terminal block connector for electrical connections. It provides precision electro-pneumatic control to actuated valves, positioners, and final control elements and is ideally used for applications that require a vibrationresistant and high-flow control device. The 612000 is designed for intrinsically safe service. It's compact size and accessibility to parts and adjustments allow the unit to be installed in small, space-constraint locations. DIN rail and manifold assemblies are available in kits that provide multiple mounting points. An integral pneumatic volume booster is included in the unit design to provide high flow capacity up to 6.5 SCFM. Zero and span are calibrated by turning easily accessible adjusting screws on the front face of the unit. A thermistor circuit in series with the coil provides temperature compensation.

#### **APPLICATIONS:**

The 612000 transducer can be used as an electro-pneumatic control device to operate:

Valve actuators and positioners

Automation systems

Liquid and gas processing systems

#### **MOUNTING:**

The 612000 can be mounted at any angle but should be calibrated after mounting. For maximum output pressure stability, the unit should be mounted vertically in a vibration-free location or such that the vibration is isolated to the X and Z axis. The 612000 can also be in-line, panel, pipe, or manifold mounted.

### **ELECTRICAL CONNECTIONS:**

Screw Terminal- Anvil Type Wire Range (18-22AWG)

Flow @ Mid Range

## SPECIFICATIONS (@ 27 PSI SUPPLY):

Hysteresis <.75% of span Repeatability <.5% of span Linearity <.75% of span

> (Independent linearity) 6.5 SCFM (Minimum)

(Supply pressure 120 psi, output) pressure @ 15 psi

3 SCFH@

Maximum Air Consumption 15 psi output

Vibration <.7% of span per 0.5 g-level

25-100 Hz

**Exhaust Capacity** >1.0 SCFM @ 5 psi above set

point

**Output Signal** 

Supply Pressure 3 PSI above maximum output

to 120 PSI maximum

Input Signal 4-20 mA DC, 0-5 VDC, 1-9 VDC, 1-10 VDC, or 0-10 VDC

3-15 psig or 3-27 psig

Weight 1.3 lbs. Port Size 1/4" NPT

Supply Pressure Sensitivity <2.5% of span supply

pressure 15 psi

Temperature Range -20°F to +150°F

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