

Electropneumatic Transducers

Micro-Controlled With High-Performance,
Low-Power Coil Poppet Valve Technology

APPLICATIONS

- Hospitals
- Schools
- Pneumatic dampers/actuators

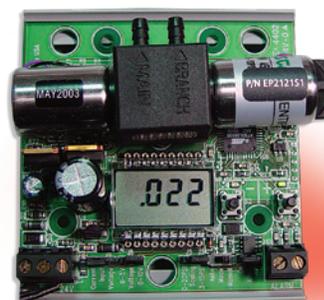
FEATURES

EP2 – Versatile and Easy to Use

- Field-selectable 4-20mA/0-5V/0-10VDC input for application flexibility
- Poppet valve technology for quiet operation
- Manual override with set and hold feature...great for commissioning those leaky systems
- Multi-point calibration; 3-15psi (5 point calibration) and 0-20psi (6 point calibration)
- Pressure loss alarm provides a contact closure if the EP is unable to achieve the desired output within a fixed length of time
- Failsafe vent solenoids bleed branch pressure on power failure for added safety
- Optional transparent plastic dust cover (AA43) protects units from dust and tampering (required for CE)

EP3 Same Features as EP2 Plus...

- User programmable zero and full scale outputs
- Backlit LCD for local indication of readings...easy to view
- Dual-color LED...assists in trouble shooting
- Tristate and PWM inputs



EP2



DESCRIPTION

The EP Series combines a microcontroller with high performance low power coil, poppet valve technology to create a system with unparalleled accuracy and proven reliability. The poppet valves used in the EP Series consume no air, eliminating unnecessary air losses in the system and allowing for efficient, long-term operation. The EP Series permits versatility, since all models feature manual override. The LCD provides easy visibility and the LED indicators provide visual status of valve operation in manual or automatic mode. All models come with SnapTrack housing and optional covers are available.

SPECIFICATIONS

Input Power	EP2: 24VAC/DC nominal, 30VAC max.; 150mA max.; EP3: 22-30VDC 20-30VAC, 47-63 Hz., 150mA max. average, 350mA peak
Control Input	EP2: 4-20mA/0-5V/0-10VDC; jumper-selectable; EP3: 4-20mA/0-5V/0-10VDC; switch-selectable, Tri-State, PWM
Input Impedance	4-20mA, 250 ohm; 0-5V/0-10VDC, 10k ohm
Manual Override	EP2: Jumper-selectable mode, digital pushbutton adjust; EP3: Digital pushbutton adjust, switch-selectable mode
Alarm Contact	100mA@30VAC/DC (Pressure loss, manual mode, jumper selectable)
Accuracy	EP2: 1% FS; combined linearity, hysteresis, repeatability; EP3: 1% FS; combined linearity, hysteresis, repeatability @20°C (68°F) ambient
Compensated Temperature Range	EP2: -4° to 65°C (25° to 140°F)
Temperature Coefficient	EP2: ±0.05%/°C; EP3: ±0.1%/°C
Operating Environment	EP2: 10-90% RH, non-condensing; EP3: 10-90% RH, non-condensing -4°C to 60°C
SCIM	EP3: 523 in ³ /min @45psi; (8570 cm ³ /min @ 310.3kPa); 333 in ³ /min @ 20psi (5457 cm ³ /min @ 137.9 kPa)
Air Capacity	EP2: 523 in ³ /min@45 psi (8570cm ³ /min@310.3 kPa); 333 in ³ /min@20 psi (5456cm ³ /min@137.9 kPa)
Supply Pressure	EP2: 45 psig max.; EP3: Min (0.1psi + user F.S. pressure); Max 45psig
Control Range	EP2: 0-20 psig or 3-15 psig, jumper-selectable; EP3: User programmable Zero selectable from 0-25psi: Full scale 0-25psi
Pressure Differential	0.1psig (supply to branch)
Pressure Indication	Electronic, 3-1/2 digit LCD (back-lit on EP3 models)
Minimum Tubing Length	15 feet*
Port Connection	1/8" i.d. poly tubing
Media Connection	Clean, dry air, or inert gas. Do not use with oxygen service

*For shorter tubing runs use AA45 Pneumatic Capacitor

EMC Conformance: Low voltage directive 2006/95/EC; EMC directive 2004/108/EC.

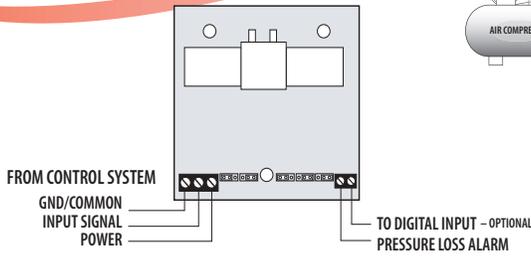
EMC Special Note: Connect this product to a DC distribution network or an AC/DC power adaptor with proper SURGE PROTECTION (EN 61000-6-1:2007 specification requirements).



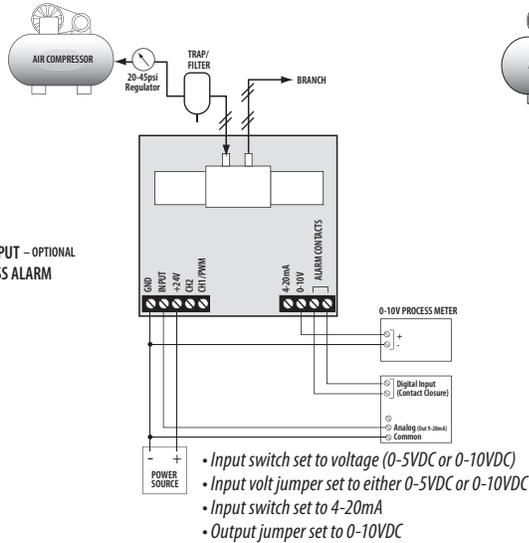
EP Series transducers are sold as an open device. Observe handling precautions for static sensitive devices to avoid damage to the circuitry which would not be covered under the factory warranty.

APPLICATION/WIRING DIAGRAMS

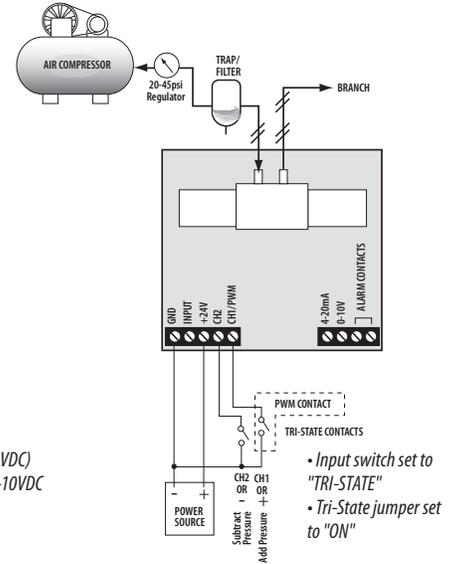
EP2



EP3 Current/Voltage Control

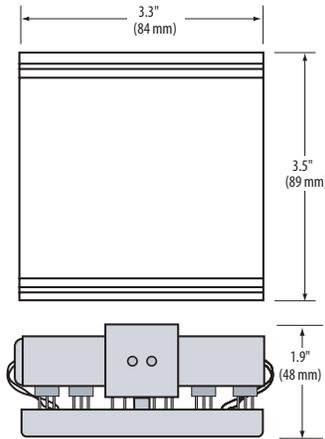


EP3 Tri-state Control



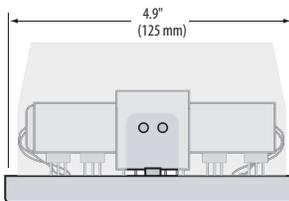
DIMENSIONAL DRAWINGS

EP2/EP3

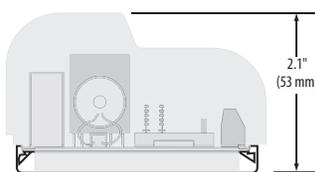


Dust Cover

FRONT VIEW

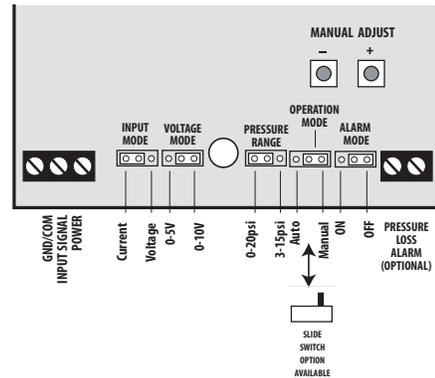


SIDE VIEW

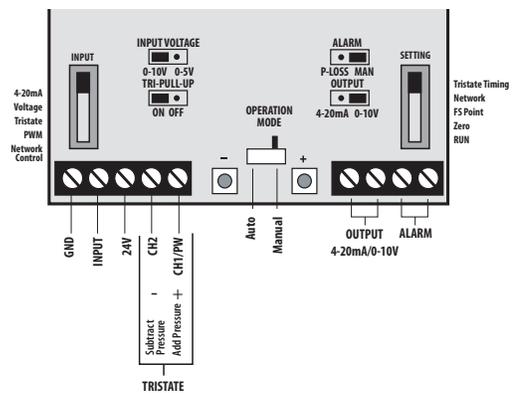


CONFIGURATION

EP2



EP3



ORDERING INFORMATION



Output	Feedback	Failsafe	US or EU	Option
EP2 1	0 = None 1 = Pressure Loss Alarm 2 = Manual Mode Alarm	0 = None 1 = Vent on Power Fail	S = Standard C = CE, includes cover plate	Blank = none 1 = Slide Switch/ Auto/Manual 2 = EP Cover Plate 3 = Slide Switch/ Auto Manual plus EP cover plate

Output	Feedback	Failsafe	US or EU	Option
EP3 3	0 = None 3 = Analog output: 0-10VDC, or 4-20mA, selectable	0 = None 1 = Vent on Power Fail	S = Standard C = CE, includes cover plate	Blank = None 2 = EP Cover Plate

Example:
EP **3** **3** **3** **1** **S** **2** Option = Cover Plate

Example:

EP **2** **1** **0** **0** **S** **1** Option = Slide Switch Auto Manual Mode

ACCESSORIES

Steel Bracket (AA23), Dust cover (AA43), Pneumatic Capacitor (AA45)