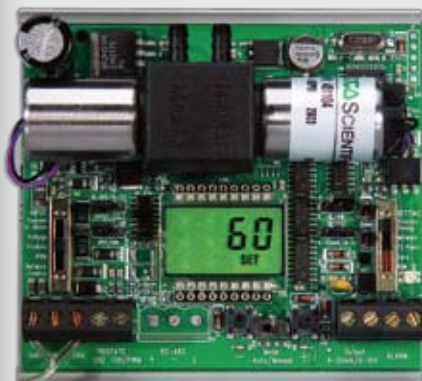


**MICRO-CONTROLLED WITH
HIGH-PERFORMANCE, LOW-POWER
COIL POPPET VALVE TECHNOLOGY**

**5 Year
Warranty**

EP3



Features PWM, tristate, and analog inputs with slide-switch selection and user programmable zero and full scale outputs

EP2



Equipped with jumper selectable control ranges (0-20 psig or 3-15 psig)

Electropneumatic Transducers

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.

APPLICATIONS

- Hospitals
- Schools

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

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

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
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: EN 61000-6-3:2001 Class B, EN 55022 Class B, EN 61000-6-1:2001
EMC Test Methods: CISPR 22:2005, Class B, IEC 61000-4-2:2001, IEC 61000-4-3:1998;
IEC 61000-4-4:1995, IEC 61000-4-5:1995, IEC 61000-4-6:1997, IEC 61000-4-8:2001
EMC Special Note: Connect this product to a DC distribution network or an AC/DC power adaptor with proper SURGE PROTECTION (EN 61000-6-1:2001 specification requirements).

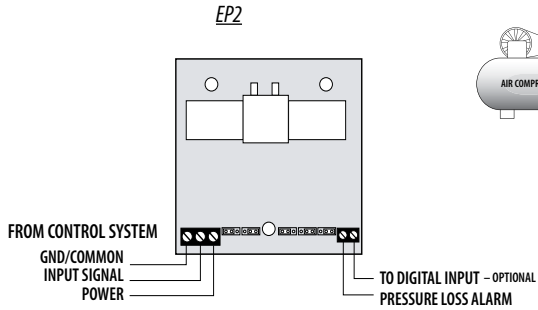


EP Series transducers are sold as an open device. Observe handling precautions for static sensitive devices to avoid damage to the circuitry which would not be covered under the factory warranty.

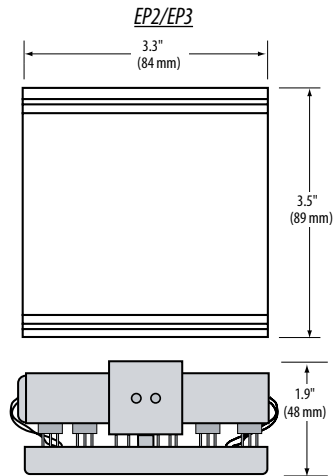


MechTronics
Controls
www.hvacusa.com
Phone (877) 632-4876

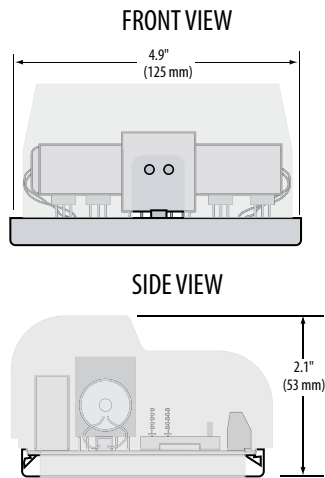
APPLICATION/WIRING DIAGRAMS



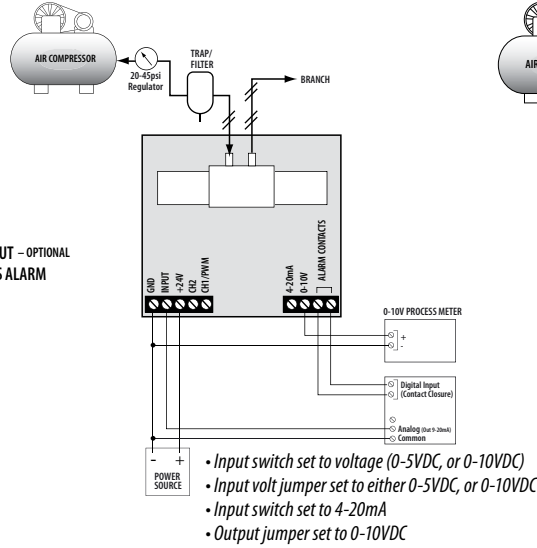
DIMENSIONAL DRAWINGS



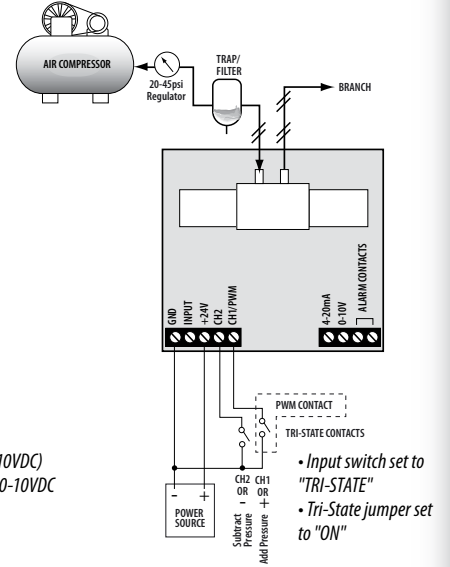
Dust Cover



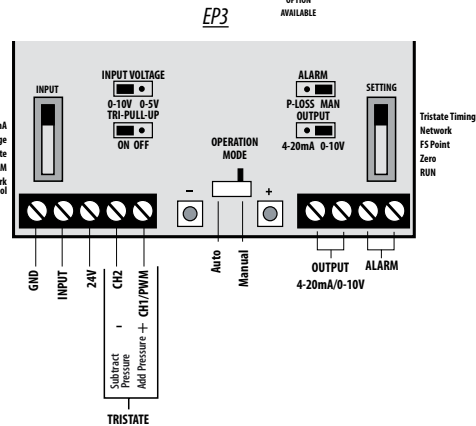
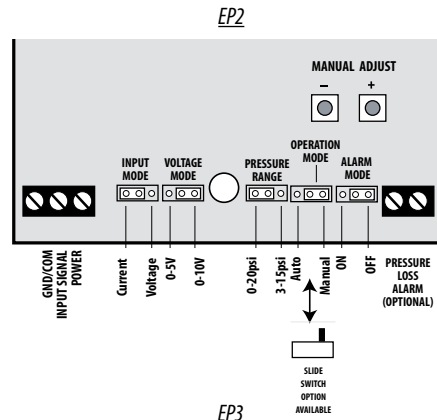
EP3 Current/Voltage Control



EP3 Tri-state Control



CONFIGURATION



ORDERING INFORMATION



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

Output	Feedback	Failsafe	US or EU	Option
EP3 <input type="checkbox"/> 0 = None <input type="checkbox"/> 3 = Analog output: 0-10VDC, or 4-20mA, selectable	<input type="checkbox"/> 3 = Pressure Loss Alarm, or Manual Mode Alarm	<input type="checkbox"/> 0 = None <input type="checkbox"/> 1 = Vent on Power Fail	<input type="checkbox"/> S = Standard <input type="checkbox"/> C = CE, includes cover plate	<input type="checkbox"/> Blank = None <input type="checkbox"/> 2 = EP Cover Plate

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



ACCESSORIES

Steel Bracket, Dust cover, Pneumatic Capacitor...see page 218.