



## Product Data

# EPC Series

Analog Current or Voltage Input to Pneumatic Output Single, Dual Valve (750 and 1400 scim), and Fail Safe

## Product Description

The EPC Series are electric to pneumatic transducers which convert an analog input signal to a proportional pneumatic output, modulating its control valve(s) to regulate the branch line pressure to the set point determined by the input signal. The EPC series offers four selectable input ranges. Output pressure ranges are jumper shunt selectable and adjustable in all ranges. A feedback signal indicating the resultant branch line pressure is also provided.

EPC Series is designed with electrical terminals on one end and pneumatic connections on the other, allowing for maximum convenience in wiring and tubing installation when panel mounted.

The EPC Series is covered by ACI's Two (2) Year Limited Warranty, which is located in the front of ACI'S SENSORS & TRANSMITTERS CATALOG or can be found on ACI's Website, which is: [www.workaci.com](http://www.workaci.com).

Specify: **EPC\*** or  
**EPC2** — —  
0-30 psi (206.85 kPa) gauge **G** ↑  
**FS** - (2 valve)- exhausts branch via 3 way valve on power loss, 750 scim supply & exhaust  
**LG**- (2 valve, w/ gauge)- maintains branch on power loss, 1400 scim supply & exhaust (external filter)  
**B** - 2 valve - maintains branch pressure, 750 scim supply valve, 750 scim exhaust  
**FSB**-2 valve - exhausts on power failure, 750 scim supply valve, 750 scim exhaust  
(The "B" option above adds a painted steel housing with mounting flange )

EPC\*- 1 valve - .007" bleed orifice, 750 scim supply valve, 41 scim exhaust  
EPC2 - 2 valve - valved exhaust- maintains branch on power loss, 750 scim supply & exhaust

See reverse side for product specifications

Wiring Diagrams available at [www.workaci.com](http://www.workaci.com)

## Interface Devices



(Shown with optional enclosure)

### Attributes:

- Field adjustable offset and span
- Manual/Auto toggle switch reports override status to controller and potentiometer allows adjustment of pressure output in Manual Mode
- Field selectable pressure output ranges
- Plug-in Terminal Block
- Terminals and air connections oriented for convenient panel installation
- Snap track included

### Applications:

- 3 Way Mixing Valve Control
- Pilot Positioner Control
- Pneumatic Valve and Actuator control
- Fan Vane Control



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TEMPERATURE

RELATIVE HUMIDITY

PRESSURE

CURRENT

GAS SENSORS

ACCESSORIES

INTERFACE DEVICES

## Product Specifications

<b>Supply Voltage</b>	24VDC (+10% / -5%) / 24VAC (+/-10%), 50/60Hz
<b>Supply Current</b>	180mA maximum, 200mA on EPC2FS.
<b>Input: Range and Impedance</b> Four jumper selectable ranges	0-5VDC / infinite $\Omega$ , 0-10VDC / infinite $\Omega$ , 0-15VDC / infinite $\Omega$ , 0-20mA / 250 $\Omega$
<b>Feedback Signal Output Range</b>	0-5VDC = Output pressure range selected
<b>Supply Pressure</b>	Max 25psig (172.38kPa), min 18psig (124.11kPa) Main air pressure must be minimum of 2psig (13.79kPa) above maximum output pressure desired.
<b>Air Consumption</b>	See data under "Ordering Information" on the Front page
<b>Output Pressure Range - Field Calibration Possible</b> <b>Output Pressure Range-Jumper Selectable</b>	0 to 20 psig (0-138 kPa) maximum 0-10psig (0-68.95kPa), 0-15psig (0-103.43kPa), 0-20psig (0-137.9kPa)
<b>Accuracy</b>	+/-1% @ room temp or 2% full scale @ 32-120 deg. F (0-48.8 deg. C)
<b>Manual/Auto Override</b>	When switched to MAN, output can be varied. When switched to AUTO, output is controlled from input signal
<b>Manual/Auto Override Feedback</b>	Dry Contacts (24 VAC or 24 VDC, 1 amp maximum). N.O. in AUTO operation (optional: N.O. in MAN operation)
<b>Air Flow</b>	Supply valves @ 25psig (172.38kPa) main /20psig (137.9kPa) out, 750scim (1400 on LG model). Branch line requires 2 cubic inches minimum. <b>Branch line minimum of 25 feet of 1/4" O.D. Polyethylene tubing for optimum result on FS model.</b>
<b>Filtering</b>	Furnished with 80-100 integral-in-barb micron filter (Part # PN004) except for EPC2LG which is furnished with in-line 5 micron filter.
<b>Operating Temperature</b>	32 to 120° F (0 to 48.9° C)
<b>Storage Temperature Range</b>	-20 to 150° F (-6.66 to 65.55°C)
<b>Operating Humidity Range</b>	5 to 95% non-condensing
<b>Approval</b>	RoHS