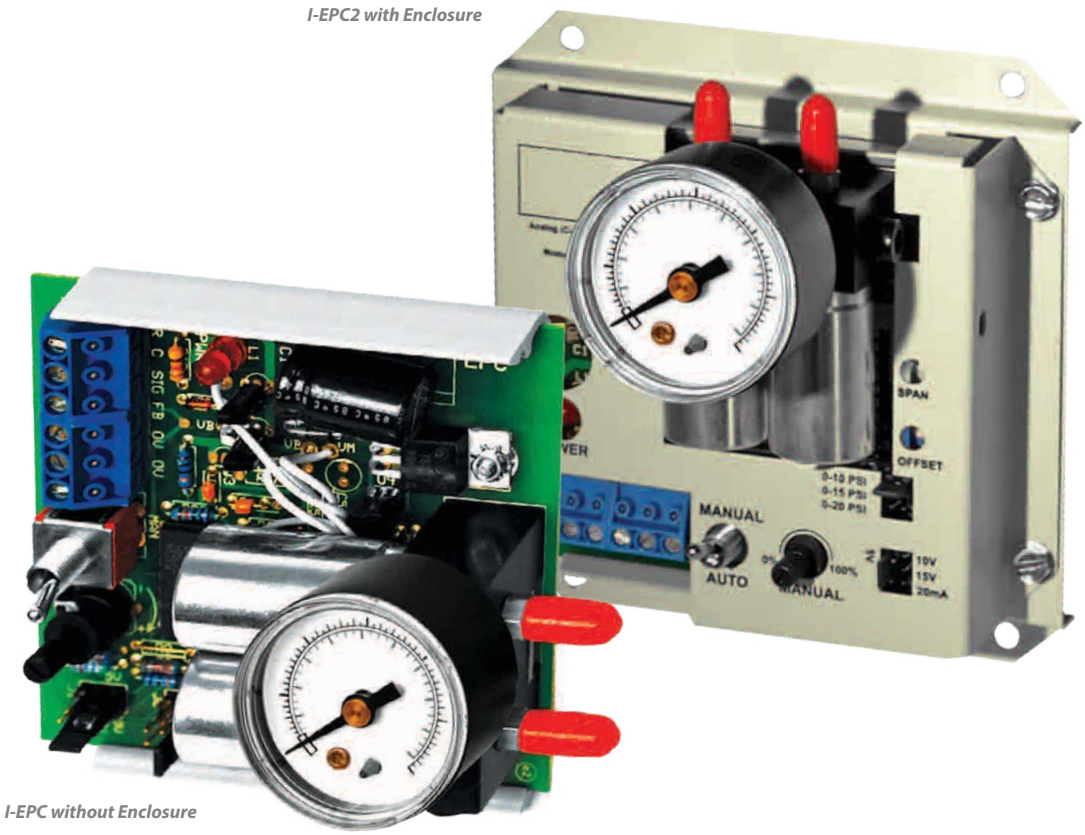
I-EPC / I-EPC2GB



I-EPC2 with Enclosure

I-EPC without Enclosure

Input | Analog | Output | Pressure

The I-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 I-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. I-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 I-EPC2 incorporates two valves (one controls exhaust), does not bleed air at set point and has a 750 scim supply and exhaust. Its branch exhaust flow and response time are not limited by an internal restrictor and are similar to its load rate. I-EPC2LG operates as the I-EPC2, but has a higher air flow rate (1400 scim) using an external 5 micron filter, and includes a 0-30 psi gauge. If power fails to the I-EPC2 or I-EPC2LG, branch line pressure remains constant if the branch line does not leak air. FAIL SAFE: The I-EPC2FS shares the same specifications as the I-EPC2 except its 3-way branch valve will exhaust branch line air upon power failure. Custom calibration is available upon request for an additional charge.

SPECIFICATIONS

Supply Voltage	24 VDC (+10%/-5%)/24 VAC (+/-10%), 50/60Hz
Supply Current	180 mA maximum, 200 mA on fail safe models
Input	0-5 VDC/infinite Ω, 0-10 VDC/infinite Ω, 0-15 VDC/infinite Ω, 0-20 mA/250Ω
Feedback Signal Output Range	0-5 VDC = output pressure range selected
Supply Pressure	Maximum 25 psig (172.38 kPa), minimum 18 psig (124.11 kPa) Main air pressure must be minimum of 2 psig (13.79 kPa) above maximum output pressure desired
Air Consumption	See data under "Ordering Information" below
Output Pressure Range	Field Calibration Possible: 0 to 20 psig (0-138 kPa) maximum
Output Pressure Range-Jumper Selectable	0-10 psig (0-68.95 kPa), 0-15 psig (0-103.43 kPa), 0-20 psig (0-137.9 kPa)
Accuracy	+/-1% @ room temp or 2% full scale @ 32-120ºF (0-48.8ºC)
Manual/Auto Override	When switched to MAN, output can be varied. When switched to AUTO, output is controlled from input signal
Manual/Auto Override Feedback	Dry Contacts (24 VAC or 24 VDC, 1A maximum). N.O. in AUTO operation (optional: N.O. in MAN operation)
Air Flow	Supply valves @ 25 psig (172.38 kPa) main/20 psig (137.9 kPa) out, 750 scim (1400 on LG model) Branch line requires 2 cubic inches minimum. Branch line minimum of 25 feet of 1/4" O.D. Polyethylene tubing for optimum result on FS model.
Filtering	Furnished with 80-100 integral-in-barb micron filter (Part #PN004) except for EPC2LG which is furnished with in-line 5 micron filter
Operating Temperature	32 to 120ºF (0 to 48.9ºC)
Storage Temperature Range	-20 to 150ºF (-6.66 to 65.55ºC)
Operating Humidity Range	5 to 95% non-condensing
Product Dimensions	(L) 4.37" (W) 4.25" (H) 1.87"

ORDERING

Please select one Valve (A). If "EPC" was selected as a Valve (A) proceed to Gauge (B) only. If "EPC2" was selected, proceed to (B), (C) & (D). Choose an Optional Accessory (1) if desired.

A Valve

- ◯ **I-EPC** (.007 Bleed Orifice) (Complete (B) only)
- ◯ **I-EPC2** (Valved Exhaust) (Complete (B), (C) & (D))

B Gauge

- ◯ **----** (None)
- ◯ **G** (Gauge) (0-30 psi)

C EPC2 Options

- ◯ **----** (None)
- ◯ **FS** (Fail Safe)
- ◯ **LG** (Higher Flow Rate)

D EPC2 Enclosure

- ◯ **----** (None)
- ◯ **B** (EPC2 Enclosure)

1 Optional Accessories

- ◯ **----** (None)
- ◯ **DRC** (Din Rail Mounting)

BUILD PART NUMBER

After completing (A), (B), (C) & (D) from the above table, fill in the Part Number Table below. (1) is an Optional Accessory. An example part number is offered.

A	B	C	D

EXAMPLE: I-EPC2 - FS - B

1

EXAMPLE: DRC

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