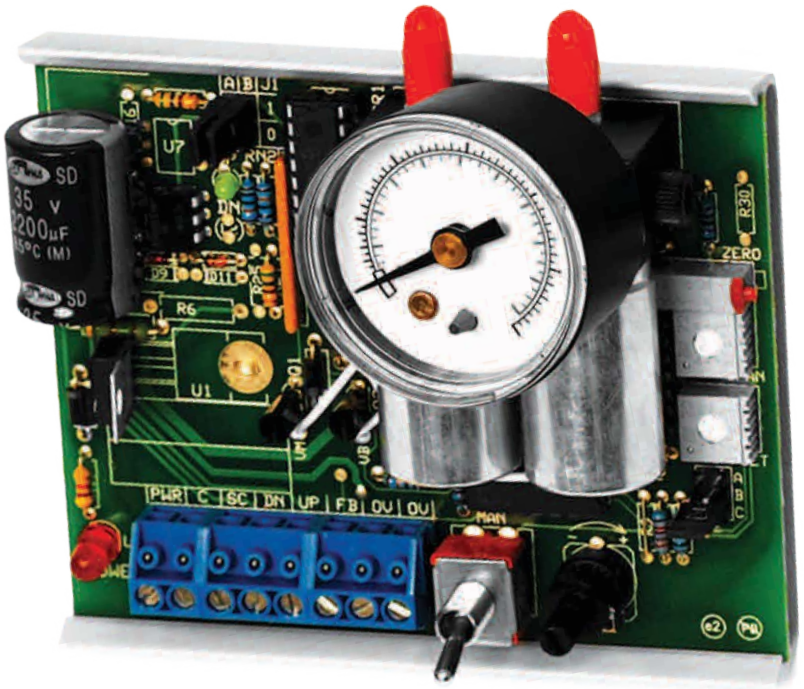
I-EPW



Input | Pulse | Output | Pressure

The I-EPW converts a pulse, phase cut, or digital PWM signal into a proportional pneumatic signal ranging from 0 to 20 psig. The pneumatic output is proportional to the signal input, either direct or reverse acting and features a manual override potentiometer to vary the pneumatic output. The I-EPW offers four jumper selectable input timing ranges (see specification chart). Output pressure ranges are jumper shunt selectable for 0-10, 0-15 and 0-20 psig, and adjustable in all ranges. Dual Valve Fail Safe models will exhaust branch line air upon power failure. A 0-5 VDC feedback signal indicating the resultant branch line pressure is also provided. This signal varies linearly with the branch pressure range selected. The I-EPW 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. Custom calibration is available upon request for an additional charge.

SPECIFICATIONS

Supply Voltage	24 VDC (+10%/-5%) or 24 VAC (+/-10%), 50/60 Hz.
Supply Current	50 mA, 150 mA on pressure excursions (standard model) 200 mA on pressure excursions (fail-safe model)
Pulse Source	Relay Contact Closure, Triac, or Transistor (solid state relay)
Pulse Trigger Level/Impedance	9-24 VAC or VDC @ 750Ω nominal
Off Time Between Pulses	10 milliseconds minimum
Pulse Duration/Resolution	Selectable ranges, Direct Acting (D.A.)/255 Steps
Standard	0.1-10 seconds 0.02-5 seconds 0.1-25 seconds 0.59-2.93 seconds
Version 2	0.023-6 seconds or 0-10 second Duty Cycle
Version 4	Same as Version #1 except reverse acting (R.A.)
Override Switch	N.O. in AUTO operation (optional: in Manual operation)
Feedback Signal Range	0-5 VDC = Output Span (psig or kPa)
Supply Pressure	Maximum 25 psig (172.38 kPa), minimum 20 psig (137.9 kPa)
Air Consumption	See Ordering Information
Output Pressure Range (D.A. or R.A.)	0-10 (0-69 kPa), 0-15 (0-103 kPa) or 0-20 psig (138 kPa)
Output Pressure Accuracy	2% full scale at room temperature (above 1 psig or 6.895 kPa) 3% full scale across operating temperature range (above 1 psig or 6.895 kPa)
Air Flow	Supply valves @ 20 psig (138 kPa) main/15 psig (103 kPa) out, 750 scim Minimum of 25 feet of 1/4" O.D. poly tubing for FS model.
Filtering	Furnished with integral-in-barb 80-100 micron filter (Part #PN004) Optional standard barb (PN002) with external 5 micron in-line filter (PN021)
Operating Temperature	32 to 120ºF (0 to 48.9ºC)
Operating Humidity Range	5 to 95% non-condensing
Product Dimensions	(L) 4.00" (W) 3.45" (H) 1.87"

ORDERING

Please select one Version (A) & one Option (B). Choose an Optional Accessory (1) if desired.

A Version

- ○ **----** (Standard)
- ○ **VERSION 2**
- ○ **VERSION 4**

B Options

- ○ **----** (Standard 1 Valve: 0.007" Bleed Orifice) (750 scim supply valve, 41 scim constant bleed)
- ○ **G** (1 Valve: 0.007" Bleed Orifice) (750 scim supply valve, 41 scim constant bleed with 0-30 psi gauge)
- ○ **2** (2 Valve: Maintains Branch Pressure) (750 scim supply valve, 750 scim exhaust)
- ○ **2G** (2 Valve: Maintains Branch Pressure) (750 scim supply valve, 750 scim exhaust with 0-30 psi gauge)
- ○ **2FS** (2 Valve: Exhausts on Power Failure) (750 scim supply valve, 750 scim exhaust)
- ○ **2GFS** (2 Valve: Exhausts on Power Failure) (750 scim supply valve, 750 scim exhaust with 0-30 psi gauge)

1 Optional Accessories

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

BUILD PART NUMBER

After completing (A) & (B) from the above table, fill in the Part Number Table below. The "Sensor Series" is a factory default. (1) is an Optional Accessory. An example part number is offered.

I-EPW

SENSOR SERIES	A	B

EXAMPLE: I-EPWG

1

EXAMPLE: DRC

RoHS COMPLIANT 2002/95/EC