



Product Data

EPW

Pulse Width Modulated (PWM) Input to Pneumatic Output Single Valve, Dual Valve, and Fail Safe

Product Description

The 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.

The EPW has a manual override potentiometer to vary the pneumatic output and two LEDs, one to indicate power and one for signal status.

The EPW offers four jumper selectable input timing ranges (see specification chart). Output pressure ranges are jumper shunt selectable for 0-10, 0-15 and 0-20psig, and adjustable in all ranges. 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.

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.

The EPW 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.

Specify: **EPW** _____ **Version 2, 3, or 4** (see "Input" specifications on reverse side)
DRC Kit = Optional Din Rail Mounting Kit

()	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, 41scim constant bleed with 0-30psi gauge
2	2 valve - maintains branch pressure - 750 scim supply valve, 750 scim exhaust
2G	2 valve - maintains branch pressure - 750 scim supply valve, 750scim exhaust with 0-30psi 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

See reverse side for product specification

Wiring Diagrams available at www.workaci.com

Interface Devices



Attributes:

- Manual/Auto toggle switch reports override status to controller and potentiometer allows adjustment of pressure output in Manual Mode.
- Terminals and air connections oriented for convenient panel installation.
- New circuitry for QUIET operation of EPW2 and EPW2FS.
- Plug-in Terminal Block
- Snap track included

Applications:

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



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TEMPERATURE

RELATIVE HUMIDITY

PRESSURE

CURRENT

GAS SENSORS

ACCESSORIES

INTERFACE DEVICES

Product Specifications

Supply Voltage	24VDC(+10%/- 5%) or 24VAC(+/-10%), 50/60 Hz.
Supply Current	50mA, 150mA 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	9-24VAC or VDC@750 ohms nominal
Off Time Between Pulses	10 milliseconds minimum
Pulse Duration/Resolution	Selectable ranges, Direct Acting (D.A.) /255 Steps
Standard	In seconds of relay contact closure, Triac or transistor (solid state relay), 0.1-10 seconds in 0.1 second increments 0.02-5 seconds in 0.02 second increments 0.1-25 seconds in 0.1 second increments 0.59-2.93 seconds in 0.01 second increments
Version #2	0.023-6 seconds or 0-10 second Duty Cycle
Version #3	0 to 20V Staefa™ Phase Cut
Version #4	Same as Version #1 except reverse acting (R.A)
Override Switch	N.O. in AUTO operation (optional: N.O. in MAN operation)
Feedback Signal Range	0-5VDC = Output Span (psig or kPa)
Supply Pressure	Maximum 25psig (172.38kPa), minimum 20psig (137.9kPa)
Air Consumption	See Ordering Information
Output Pressure Range (D.A. or R.A.)	0-10 (0-69kPa), 0-15 (0-103kPa) or 0-20 (138kPa) psig
Output Pressure Accuracy	2% full scale at room temperature (above 1 psig or 6.895kPa) 3% full scale across operating temperature range (above 1psig or 6.895kPa)
Air Flow	Supply valves @ 20psig (138kPa) main/15psig (103kPa) out, 750scim. 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 120° F (0 to 48.9° C)
Operating Humidity Range	5 to 95% non-condensing
Approval	RoHS