



## I/P, E/P ANALOG TO PNEUMATIC TRANSDUCER E-475 (3 wire current or voltage controls 0-100psig)

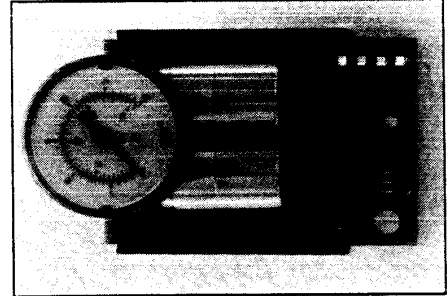
### DESCRIPTION:

The BEC E475-100 is an electric to pneumatic transducer which converts an analog electrical input signal to a proportional pneumatic output. The E475-100 offers four selectable input ranges that each produce a 0 to 100 psi output and provide a 0 to 5 vdc feedback signal indicating the controlled branch line pressure. This signal varies linearly with branch pressure: 0 vdc = 0 psig and 5 vdc = 100 psig

When the E475-100 receives an input signal which does not equate to the current branch line pressure, the E475-100 control valve(s) will modulate open or closed until the desired branch pressure is achieved. Regulating action of the E475-100 will automatically occur anytime the branch line pressure deviates from the selected setpoint.

The E475-100 incorporates two valves and does not use air at set point. Its branch exhaust flow and response time is not limited by an internal restrictor and is similar to its load rate.

If power to the E475-100 is lost, branch line pressure remains constant if the branch line does not leak air.



### FEATURES:

- \*FIELD SELECTABLE INPUT RANGES AND ORIFICES
- \*CLOSED LOOP CONTROLLED DEVICE
- \*GAUGE PORT
- \*ANALOG FEEDBACK
- \*SOLID-STATE TRANSDUCER
- \*BARBED OR 1/8" NPT FEMALE FITTINGS
- \*NOT POSITION SENSITIVE
- \*0 to 100 PSIG OUTPUT
- \*SUPPLIED WITH FILTER IN BARB
- \*SNAP-TRACK or METAL WEATHER PROOF ENCLOSURE

### APPLICATIONS:

- \*PNEUMATIC ACTUATORS
- \*VALVE AND DAMPER ACTUATORS
- \*FAN VANE CONTROL
- \*PILOT POSITIONERS
- \*DDC CONTROL
- \*COMPRESSOR STAGING
- \*3 WAY MIXING VALVE CONTROL
- \*CHILLER LOADING

### SPECIFICATIONS:

\* CUSTOM CALIBRATION AND/OR MODIFICATION IS AVAILABLE

#### ELECTRICAL REQUIREMENTS

Supply Voltage	Regulated 24 VAC/DC +/- 10% < .2 volts ripple
Power Consumption	
Nominal	75mA
Maximum	150mA
Input: Range/Impedance	Four selectable ranges:   0 or 5 VDC / 10,000 ohms 0 or 10 VDC / 10,000 ohms 0 or 15 VDC / 10,000 ohms 0 or 20 mA / 250 ohms
Feedback: Output Signal Range	0 to 5 VDC (+/- 3% of full scale)





## ENGINEERING PRODUCT SPECIFICATION RELEASE

E-11475-100

### Mechanical Requirements

Air Supply	
Supply Pressure	110 psig max
Output	
Pressure Range	0-100 psig, +/- 3% accuracy between 20 & 100 psig only
Manual Override	Potentiometer full CCW = 100 psig, full CW = 0 psig
Pneumatic Capacity	
Air Flow:	Supply valves @ 100 psig main/95 psig out 750 scim. Branch line requires 2 cubic inches minimum volume.
Filtering:	Furnished with integral-in-barb 80-100 micron filter (P/N PN004).
Connections	
Wire Size	Up to one 14 gauge wire per terminal.
Terminal Type	45°soldered (standard) or 90°plug-in (custom) screw clamp terminal blocks with 5mm spacing.
Pneumatic Fitting Type	Brass barbed fittings for Main and Branch tubing mounted in machined aluminum manifold.
Pneumatic Tubing Size/Type	1/4" O.D nominal polyethylene
Dimensions	3.25" L x 2.25" W x 1.5" H (unmounted)
Shipping Weight	6.0 oz
Mounting	Furnished with 2.375" length of 2.25" wide snap-track. DIN Rail clips for 1-3/8" DIN rail (DRC Kit), or Enclosure (optional)
<b>Environmental Requirements</b>	
Operating Temperature	32 to 120 deg F
Storage Temperature Range	-20 to 150 deg F
Operating Humidity Range	10 to 95% non-condensing

Please feel free to call 800-677-8876 if you need assistance or need other calibration needs.

### ORDERING INFORMATION:

SPECIFY E475-100 with Enclosure? \_\_\_\_\_ DRC Kit? \_\_\_\_\_



**BEC CONTROLS CORP.**  
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