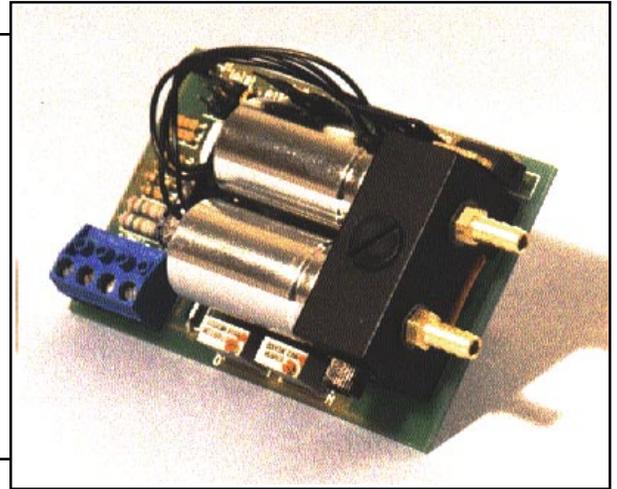


## FEATURES:

- Closed loop control
- Accepts two relay contact closures, transistor, or triac inputs (operates on 50 or 60 Hz-see below)
- Brass barbed tubing fittings mounted in anodized machined aluminum manifold
- Maintains branch line pressure on power outage
- Field selectable output to accommodate actuator spring range
- Dual valves for high airflow rates
- Gauge port

## APPLICATIONS

- Pneumatic Damper Motor Control
- Pneumatic Valve Actuator Control
- Compressor Staging
- Electric Control of any Pneumatic Actuator



## PRODUCT DESCRIPTION:

The PTS4 converts two digital (increase/decrease) signals into a proportional pneumatic signal of 0-10, 5-15 or 0-15 psig or 0-69, 34-103, or 0-103 kPa (jumper selectable). The pneumatic output increases when the UP input is on, or decreases when the DOWN input is on. The pneumatic output changes full scale (from minimum to maximum) in 90 seconds, with 255 steps of resolution.

The PTS4's closed loop electronic design will maintain the last commanded pneumatic pressure. An on-board microprocessor measures the signal input, and a solid-state pressure transducer mea-

sures branch line pressure. The PTS4 uses these two values to automatically increase or decrease branch line air pressure. In the event of a power failure, both PTS4 valves close, shutting off main air and branch line bleed.

The PTS4's anodized aluminum air manifold has brass barbed fittings (removable) for connection to 1/4" O.D. (1/8" I.D.) polyethylene tubing and a 1/8" FNPT threaded port for a pressure gauge.

The digital inputs can be a relay contact closure, transistor or triac.

## ORDERING INFORMATION

Order **PTS4** or **PTS4 Model # 0395-01 (50 Hz)** \_\_\_\_\_ with \_\_\_\_\_ **ENC1 Enclosure?**  
 G - 0-30 psi gauge installed

All factory calibrated products are NIST traceable. Certificates of Compliance must be ordered with products.

## SPECIFICATIONS

### ELECTRICAL REQUIREMENTS

*Power Supply:*

Supply Voltage:

24 VAC or 24 VDC (+/- 10%) at PTS4 terminals. 50 Hz model available - see ORDERING INFORMATION above.

Power Consumption:

4 VA

*Digital Input:*

Two (2) relay contact closures, transistors or TRIACs

24 VAC (+/- 10%) signal trigger level

Input impedance:

750 ohms

## MECHANICAL REQUIREMENTS

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|                                    |   |
|------------------------------------|---|
| <i>Rate of Change:</i>             | 90 Seconds  |
| <i>Air Supply:</i>                 |   |
| Supply Pressure:                   | 25 psig (172 kPa) maximum supply pressure, 20 psig (138kPa) minimum.  |
| Output pressure range              | 0-10, 5-15, or 0-15 psig (0-69, 34-103, or 0-103 kPa) jumper selectable.  |
| Branch Line Capacity:              | 2 cubic inches (32.7 cubic centimeters) minimum volume on branch  |
| Air Flow:                          | Supply valves @ 20 psig (138 kPa) main/15 psig (103 kPa) out, 750 scim  |
| Filtering:                         | Furnished with integral-in-barb 80-100 micron filter (Part # PN004)<br>Optional standard barb (PN002) with external 5 micron in-line filter (PN021).                                      |
| <i>Connections:</i>                |   |
| Wire Size                          | Up to one (1) 14 AWG wire per termination.  |
| Terminal Type                      | Plug-in terminal strip, plugs on four (4) square 5mm pins, captive screw with cage clamp in tin plated brass  |
| Pneumatic Fitting                  | Machined aluminum manifold with black anodized finish, removable 10-32 brass barbed fittings for 1/4" O.D. tubing on Main and Branch connections, and a plugged 1/8" -27 FNPT gauge port. |
| Pneumatic Tubing                   | 1/4" O.D. (1/8" I.D.) polyethylene  |
| <i>Dimensions</i>                  |   |
| Dimensions in snaptrack            | 3.25" L X 2.25" W X 1.5" H (8.25 cm L X 5.7 cm W X 3.81 cm H)   |
| Dimensions in snaptrack with guage | 3.25" L X 2.25" W X 3.0" H (8.25 cm L X 5.7 cm W X 7.62 cm H)   |
| <i>Weight</i>                      | 9 oz. (.25 Kg) with no guage.   |
| <i>Mounting</i><br>optional)       | Furnished with 3.25" L (8.25 cm) of 2.25" (5.7 cm) snaptrack (ENC1  |

## ENVIRONMENTAL REQUIREMENTS

|                             |                                |
|-----------------------------|--------------------------------|
| Operating Temperature Range | 32° to 120° F (-18° to 49° C)  |
| Storage Temperature Range   | -20° to 150° F (-29° to 66° C) |
| Operating Humidity Range    | 5 to 95% non-condensing        |

**PTS4 Specifications may change without notice to improve performance or functionality.**