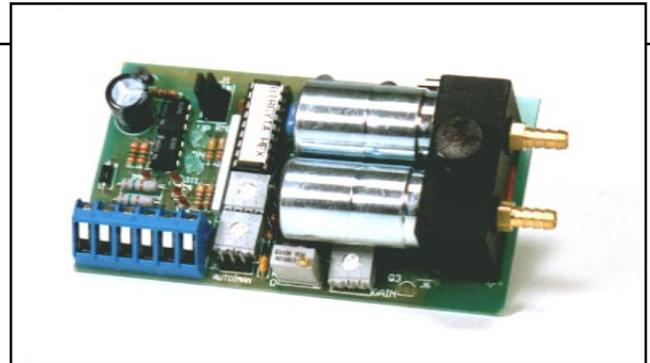


## FEATURES:

- Closed loop control, unaffected by field variables
- Accepts two relay contact closures, transistor, or triac input (standard)
- Field selectable rate of change on output
- Field adjustable for minimum and maximum pressure output plus Manual Override
- LED Status indicators for up/down signal input
- Branch pressure feedback signal
- Dual valves for high airflow rates
- Black anodized aluminum manifold with gauge port (Blue on dual valve fail-safe model)



## APPLICATIONS

- VAV Damper Motor Control
- 3-way Mixing Valve Actuator Control
- Compressor Staging
- Any Pneumatic Actuator Control



Optional  
ENC1  
Enclosure



Optional  
DRC  
DIN Rail  
Adapter

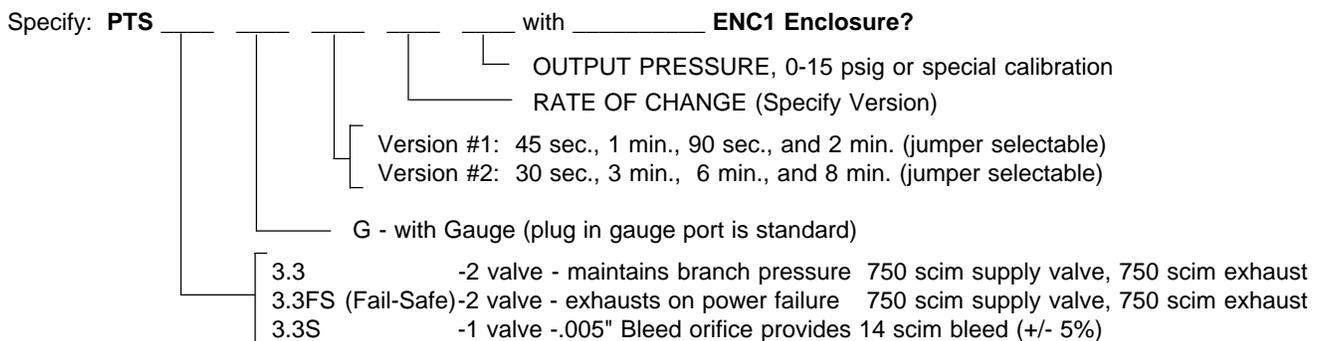
## PRODUCT DESCRIPTION:

The PTS3.3 converts two digital (increase/decrease) signals into a proportional pneumatic signal of 0-15 psi. The pneumatic output increases when the UP input is on, or decreases when the DOWN input is on at the selected rate of change. The PTS3.3 has a manual override potentiometer and LEDs for INCREASE and DECREASE status indication. The full scale pneumatic output is 15 psi with 255 steps of resolution.

The PTS3.3 has a branch line feedback signal of 0-5 VDC, which can be connected to the controller's input to monitor the branch line pressure. The PTS3.3 maintains the last commanded pneu-

matic pressure by nature of its closed loop electronic design, regardless of branch line leaks. If power fails, both PTS3.3 both valves close, and branch line pressure remains constant if the branch line does not bleed air. The PTS3.3FS, however, exhausts the branch line pressure to 0 psi on power failure, as does the PTS3.3S (Single Valve) through its bleed orifice. The PTS3.3 air manifold has brass barbed fittings for connection to 1/4" polyethylene tubing and a 1/8" FNPT tapped gauge port for local monitoring of branch line pressure. The digital input can be a relay contact closure, transistor or triac.

## ORDERING INFORMATION



Custom variations are available for other Rates of Change, Offset, and Output Pressure.

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

## SPECIFICATIONS

---

### ELECTRICAL REQUIREMENTS

#### *Power Supply:*

Supply Voltage 24 Volts DC (+/- 10%) or 24 Volts AC (22 volts minimum-28 volt maximum) at PTS3.3 terminals  
Supply Current: 160 mA maximum standard model, 200 mA maximum FS (fail-safe) model.

#### *Digital Input:*

Relay contact closure, transistor or TRIAC  
9-24 VAC/VDC signal trigger level  
Input impedance 750 ohms

#### *Feedback Output:*

0-5 VDC =0-15 psig

#### *Rates of Change:*

<u>Version # 1</u>	<u>Version # 2</u>
45 seconds	30 seconds
1 minute	3 minutes
90 seconds	6 minutes
2 minutes	8 minutes

Other rates of change can be ordered.

### MECHANICAL REQUIREMENTS

#### *Models Available/Description:*

PTS3.3	Standard Model. Separate supply and exhaust valves, holds branch pressure on a power failure
PTS3.3FS	Fail Safe Model. Separate supply and exhaust Valves (exhaust is 3-way valve), exhausts branch pressure on a power failure
PTS3.3S	Single Valve with Bleed Orifice (Model 0419-01). Single supply valve and .005" Bleed orifice exhausts branch at rate of 14 scim +/- 5%

#### *Air Supply:*

Supply pressure	Maximum 25 psig, minimum 20 psig
Output pressure range	0 -15 psig , 2 cubic inches minimum volume on branch
Air Flow	All supply valves @ 20 psig main/15 psig out, 750 scim

#### *Filtering:*

Furnished	80-100 micron integral-in-barb filter (Part number PN004)
-----------	---

#### *Connections:*

Wire Size	Up to two 18 AWG wires
Terminal Type	45°, Captive screw with cage clamp in nickel plated copper alloy
Pneumatic Fitting	Brass barbed fittings for Main and Branch tubing lines mounted in black anodized aluminum manifold (blue anodized manifold on fail- safe model). Standard w/plugged 1/8"-27 FNPT gauge port
Pneumatic Tubing	1/4" O.D. (1/8" I.D.) polyethylene
Dimensions	4.0"L X 2.175"W X 1.5"H (in snaptrack)
Weight	9 oz.
Mounting	Furnished with 4.0" length of snaptrack (ENC1 optional)

### ENVIRONMENTAL REQUIREMENTS

Operating Temperature Range	32 to 120 deg F
Storage Temperature Range	-20 to 150 deg F
Operating Humidity Range	5 to 95% non-condensing

**Specifications may change without notice to improve performance.**

*If you have a different application or need, please call toll free 1-800-886-2281 and discuss your needs with our Sales Engineers.*