



PTS4.1

Input

Floating Point

Output

Pressure

Floating Point to Modulated Pressure Output

The PTS4.1 converts two digital increase or decrease signals from relay contact closures, transistors, or triac inputs 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 PTS4.1'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 measures branch line pressure. The PTS4.1 uses these two values to automatically increase or decrease branch line air pressure. In the event of a power failure, both PTS4.1 valves close, shutting off main air and branch line bleed. If a power brown-out occurs, the PTS4.1 automatically reboots its on-board processor. During a power brown-out, power to the processor on the PTS4.1 is shut down, while the pressure output remains the same. When proper power level is restored, processor automatically powers up, and branch pressure output defaults to 0 psig.





SPECIFICATIONS

Supply Voltage	24 VAC/24 VDC +/-10% at terminals. 50 or 60 Hz
Power Consumption	150 mA (3.6 VA)
Digital Input	Two (2) Relay Contact Closures, Transistors or TRIACs (no accessories required)
Signal Trigger Level	9-24 VAC
Input Impedance	750Ω
Rate of Change	90 Seconds
Air Supply	25 psig (172 kPa) maximum supply pressure, 20 psig (138 kPa) minimum
Output Pressure Range	0-10, 5-15, or 0-15 psig (0-69, 34-103, or 0-103 kPa) (Jumper Selectable)
Accuracy	2% @ room temperature, 3% @ full range of operating temperature
Branch Line Capacity	2 cubic inches (32.7 cubic centimeters) minimum volume on branch 25' 1/4" minimum
Air Flow	Supply valves @ 20 psig (138 kPa) main/15 psig (103 kPa) out, 750 scim
Operating Temp/RH	32 to 120°F (0 to 48.9°C)/5 to 95% non condensing
Product Dimensions	(L) 3.75" (W) 2.37 (H) 1.87"

ORDERING

Please select a Gauge option (A). Choose an Optional Accessory (1) if desired.

A Gauge

- (No Gauge) (Standard)
- Gauge (Gauge with 0-30 psi) (206.85 kPa)

1 Optional Accessories

- (None)
- ENC1** (ENC1 Enclosure)
- DRC** (Din Rail Mounting Kit)

BUILD PART NUMBER

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

PTS4.1

SENSOR SERIES	A
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EXAMPLE: PTS4.1 G

1

EXAMPLE: DRC

