

## **PTS4.1**

## **Floating Point to Pneumatic 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 (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.

Applications: Pneumatic Damper Motor Control, Pneumatic Valve Actuator Control, Compressor Staging, Electric Control of any Pneumatic Actuator

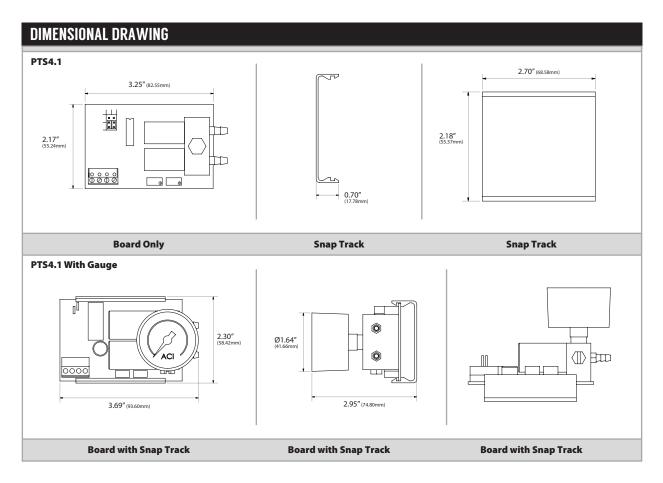
The PTS4.1 is covered by ACI's Two (2) Year Limited Warranty, which is located in the front of ACI's Sensors & Transmitters catalog or can be found on ACI's website, which is: www.workaci.com.

PRODUCT SPECIFICATIONS			
Supply Voltage:	24 VAC +/-10% at terminals   50 or 60 Hz		
Power Consumption:	150 mA (3.6 VA)		
Digital Input Signal Source:	Two (2) Relay Contact Closures, Transistors or TRIACs (no accessories required)		
Digital Input Signal Trigger Level (@ Impedance):	9-24 VAC @ 750Ω		
Rate of Change:	90 Seconds		
Air Supply Pressure:	25 psig (172 kPa) maximum, 20 psig (138 kPa) minimum		
Output Pressure Range:	0-10 psig (0-68.95 kPa), 5-15 psig (34.47-103.43 kPa), or 0-15 psig (0-103.43 kPa)		
Accuracy:	2% @ room temperature, 3% @ full range of operating temperature		
Air Flow:	Supply valves @ 20 psig (138 kPa) main/15 psig (103 kPa) out, 750 scim, Branch Line		
	requires 2 in <sup>3</sup> or 33.78 cm <sup>3</sup> (min)   Unit requires min. of 25 ft of 1/4" O.D. poly tubing		
Filtering:	Furnished with integral-in-barb 80-100 micron filter (Part # PN004)		
Connections:	90° Pluggable Screw Terminal Blocks		
Wire Size:	16 (1.31 mm²) to 26 AWG (0.129 mm²)		
Terminal Block Torque Rating:	0.5 Nm (Minimum); 0.6 Nm (Maximum)		
Connections   Pneumatic Tubing Size-Type:	1/4" O.D. nominal (1/8" I.D.) polyethylene		
Pneumatic Fitting:	Removeable brass barbed fittings for Main and Branch in machined aluminum manifold		
	Plugged 1/8-27-FNPT gauge port   Gauge installed at additional cost		
Gauge Pressure Range (Gauge Models):	0-30 psig (0-200 kPa)		
Gauge Pressure Accuracy (Gauge Models):	± 2.5% Midscale (± 3.5% Full Scale)		
Operating Temperature Range:	35 to 120°F (1.7 to 48.9°C)		
Operating Humidity Range:	10 to 95% non-condensing		
Storage Temperature:	-10 to 150°F (-23.3 to 65.5°C)		
Snaptrack Material:	Polyvinyl Chloride (PVC)		
Snaptrack Flammability Rating:	UL94 V-0		
Product Dimensions:	<b>No Gauge:</b> (L) 3.25" (W) 2.18" (H) 1.87" (82.55 x 55.24 x 47.49 mm)		
	With Gauge: (L) 3.69" (W) 2.30" (H) 2.95" (93.60 x 58.42 x 74.9 mm)		
Product Weight:	0.61 lbs. (0.276 Kg)		
Agency Approvals:	RoHS2, WEEE		









STANDARD ORDERING Model# Example: #P154.1 -OR- 1227749				
Model #	Item #	Description	Gauge	
PTS4.1	127749	Floating Point to Pneumatic Output		
PTS4.1G	127750	Floating Point to Pneumatic Output, with Gauge	•	

ACCESSORIES		Model#Example: A/D0008 -OR- 142583
Model #	Item #	Description
A/D0008	142583	Transient Voltage Suppressor, Bi-directional, 56 VAC/DC, 1500W
A/DRC 2.7 X 2.18	142626	DIN Rail Adapter Kit
A/PN004	110831	80-100 Micron Filter Media in Barb Fitting
ENC1	102472	20 Gauge Metal Enclosure, Designed to Hold Interfaces Products



