

# PTA

## PWM to Analog Current / Voltage Output

The PTA converts a single pulse-width modulated input to an analog (voltage or current) output. A timed contact or solid state closure is converted to a linear analog output signal with 255 steps of resolution. The last output signal is held until the PTA receives the end of the next pulsed input signal. The PTA's output will not wrap around if an excessively long input pulse is received. Ten preset analog output signal spans are DIP switch selectable. In addition, the span and offset potentiometer offer maximum user adjustment of the output signal. The input signal is optically isolated and can accept either positive or negative polarity. If the voltage output is limited to 18

Volts on the high end of the output span, the DC supply limit can be 24 VDC -10% and the PTA will still maintain the output accuracy. If the maximum load is 700 ohms, the DC supply can be 24 VDC-10% and the PTA will still maintain the output accuracy.

**Applications:** Pulse to Analog Transducer, Interface to Variable Speed Pump Drive Control, Interface to Variable, Frequency Fan Drive Control, Interface to Electric Actuator, Duty Cycle to Analog Control, Digital to Analog Conversion

**The PTA is covered by ACI's Two (2) Year Limited Warranty. The warranty can be found in the front of ACI's Sensors & Transmitters catalog, as well as on ACI's website.**

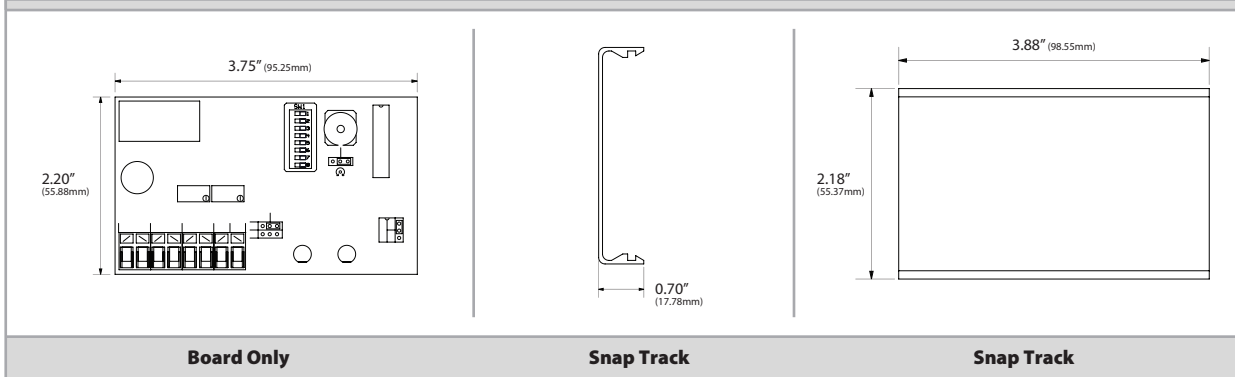
### PRODUCT SPECIFICATIONS

<b>Supply Voltage:</b>	24 VDC (24-35 VDC) or 24 VAC (21.6-26.4 VAC), 50/60 Hz.
<b>Supply Current:</b>	240 mA maximum using Voltage Output Terminal 125 mA maximum if not using Voltage Output Terminal
<b>Input Pulse Source:</b>	Relay Contact Closure, Transistor or Triac
<b>Input Pulse Trigger Level:</b>	Normal Mode = 5 to 26.4 VAC/DC   Triac Mode = 9 to 26.4VAC
<b>Input Pulse Timing:</b>	Selectable Ranges-See Ordering Grid
<b>Output Voltage Signal Selectable Range:</b>	0-1 VDC   0-4 VDC   0-10 VDC   0-13 VDC   1-2 VDC   1-5 VDC   1-11 VDC   1-14 VDC
<b>Output Voltage Signal Adjustable Range:</b>	0-20 VDC (with adjustable offset)
<b>Output Voltage Load Impedance:</b>	3300Ω minimum at 20 VDC +/- 10%   400Ω minimum at 10 VDC +/- 10%
<b>Output Current Signal Selectable Range:</b>	0-16 mA, 4-20 mA
<b>Output Current Signal Adjustable Range:</b>	0-20 mA (with adjustable offset)
<b>Output Current Load Impedance:</b>	0 to 750Ω maximum
<b>Output Resolution:</b>	256 steps of resolution
<b>Accuracy (60 Hz):</b>	+/- 2% of span for adjustable ranges, 5% for preset
<b>Accuracy (50 Hz):</b>	+/- 3% of span for adjustable ranges, 5% for preset
<b>Regulated Power Output:</b>	24 VDC, 48 mA maximum
<b>Connections:</b>	90° Pluggable Screw Terminal Blocks
<b>Wire Size:</b>	16 (1.31 mm <sup>2</sup> ) to 26 AWG (0.129 mm <sup>2</sup> )
<b>Terminal Block Torque Rating:</b>	0.5 Nm (Minimum); 0.6 Nm (Maximum)
<b>Operating Temperature Range:</b>	35 to 120°F (1.7 to 48.9°C)
<b>Operating Humidity Range:</b>	10 to 95% non-condensing
<b>Storage Temperature:</b>	-20 to 150°F (-28.9 to 65.5°C)
<b>Snaptrack Material:</b>	Polyvinyl Chloride (PVC)
<b>Snaptrack Flammability Rating:</b>	UL94 V-0
<b>Product Dimensions:</b>	(L) 3.75" (W) 2.20" (H) 1.15" (95.25 x 55.88 x 29.21 mm)
<b>Product Weight:</b>	0.24 lbs. (0.1077 Kg)
<b>Agency Approvals:</b>	RoHS2, WEEE





**DIMENSIONAL DRAWING**



**STANDARD ORDERING**

Model # Example: PTA -OR- 102632

Model #	Item #	Firmware #	Input Pulse Range (Seconds)	Additional Information
PTA	102632	0218Y0B.HEX	0.02 to 5.0s, 0.1 to 10.0s, 0.59 to 2.93s, 0.1 to 25.5s	----
PTA VERSION #2	109493	0303Y0B.HEX	0 to 10s Duty Cycle Pulse (10 second window) 0.023 to 6.0s	----
PTA-PPM	129569	0344Y0A.HEX	60 Pulses/Min., 100 Pulses/Min., 1500 Pulses/Min., 3000 Pulses/Min.	Water Flow Meter Pulse - Analog Output

**ACCESSORIES**

Model # Example: A/DO008 -OR- 142583

Model #	Item #	Description
A/DO008	142583	Transient Voltage Suppressor, Bi-directional, 56VAC/DC, 1500W
A/DRC 3.88 X 2.18	142623	DIN Rail Adapter Kit
ENC1	102472	20 Gauge Metal Enclosure, Designed to Hold Interfaces Products

