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.

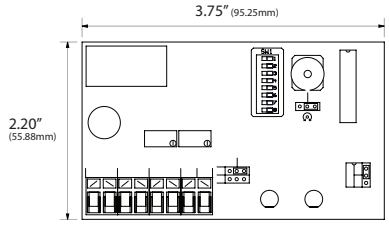
Applications: Pulse to Analog Transducer, Interface to Variable Speed Pump Drive Control, Interface to Variable, Frequency Fan Drive Control, Interface to Electric Actuator, Duty Cycle to Analog Control, Digital to Analog Conversion

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

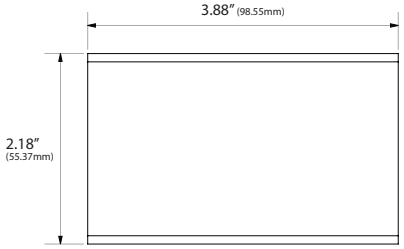
Supply Voltage:	24 VDC (24-35 VDC) or 24 VAC (21.6-26.4 VAC), 50/60 Hz.
Supply Current:	240 mA maximum using Voltage Output Terminal 125 mA maximum if not using Voltage Output Terminal
Input Pulse Source:	Relay Contact Closure, Transistor or Triac
Input Pulse Trigger Level:	Normal Mode = 5 to 26.4 VAC/DC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

DIMENSIONAL DRAWING



Board Only

Snap Track



Snap Track

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
PTA-PRO TEMP	129804	0031Y001.HEX	5 to 55 ms	Fluidmaster™ PPM to Analog

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