



PTA

Input

Pulse

Output

Analog

Pulse Width Modulated Input to Analog Current/Voltage Output

The PTA converts a single pulse-width modulated input to an analog current or voltage 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.

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 web site, www.workaci.com.



Specifications

Supply Voltage	Regulated 24 VDC (24-35 VDC) or 24 VAC (22-28 VAC), 50/60 Hz.
Supply Current	45 mA max
Input Signal Source	Relay Contact Closure, Transistor, or TRIAC (24 VAC, 50/60 Hz)
Input Trigger Level	Normal Mode: 5 to 26.4 VDC, 5 to 26.4 VAC, Triac Mode: 9 to 26.4 VAC
Time Between Pulses	1 millisecond minimum
Input Pulse Timing Ranges (Version #1)	0.02 to 5 seconds 0.1 to 10 seconds 0.59 to 2.93 seconds 0.1 to 25.5 seconds
Input Pulse Timing Ranges (Version #2)	0 to 10 seconds Duty Cycle Pulse (as sampled in a 10 second window) 0.023 to 6 seconds
Special Order Models	Flowmeter PPM to Analog (PTA-PPM), Protemp by Fluidmaster™ PPM to Analog (PTA-PRO TEMP)
Voltage Preset Ranges	0 to 1 VDC, 1 to 2 VDC, 0 to 4 VDC, 1 to 5 VDC, 0 to 10 VDC, 1 to 11 VDC, 0 to 13 VDC, 1 to 14 VDC
Dip switch selectable	0 to 14 VDC, 1 to 15 VDC
Voltage Adjustable Range	0 to 20 VDC (with Adjustable Offset)
Load Impedance (Voltage)	1000Ω minimum to infinity
Current Preset Ranges	0 to 16 mA, 4 to 20 mA
Dip switch selectable	0 to 16 mA, 4 to 20 mA
Current Adjustable Range	0 to 20 mA (with adjustable offset and span)
Load Impedance (Current)	750Ω maximum
Accuracy (60 Hz)	+/- 5% for all factory ranges (default) or +/- 2% for field adjustable ranges
Resolution	255 steps of resolution
Regulated Power Output (for user)	24 VDC, 48 mA maximum
Operating Temperature	32 to 120°F (0 to 48.9°C)
Operating Humidity	10% to 95% non-condensing
Product Dimensions	(L) 3.75" (W) 2.25" (H) 1.15"

Ordering

Please select one PTA Version (A). Choose an Optional Accessory (1) if desired.

A PTA Version

- PTA (Pulse Width Modulated Input to Analog Current/Voltage Output) PTA-PPM (Flowmeter PPM to Analog)
 PTA Version 2 (Duty Cycle Pulse to Analog) PTA-PRO TEMP (Fluidmaster™ PPM to Analog)

1 Optional Accessories

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

Build your part number

After completing (A) from the above table, fill in the Part Number Table below. (1) is an Optional Accessory. An example part number is offered.

A

EXAMPLE: PTA Version 2

1

EXAMPLE: DRC

