



# 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](http://www.workaci.com).





**SPECIFICATIONS**

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

