



PTA2

Input

Pulse

Output

Analog

Pulse Width Modulated Input to Analog 0-10 VDC Output

The PTA2 accepts a timed contact, or solid state closure, from a microprocessor controller and converts it to a linear analog output with 255 steps of resolution. The PTA2 will not wrap around if an excessively long pulse is received. Four input pulse rates are jumper selectable. The input signal is optically isolated and can accept either positive or negative polarity. The PTA2 includes triac adapter circuitry (jumper selectable) for a triac input. The PTA2 has a jumper selectable manual override which will allow modulation of the output between 0-10 VDC to verify proper operation of the controlled device. The last output signal is held until the PTA2 receives the end of the next pulsed input signal.

The PTA2 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	24 VAC or 24 VDC +/-10%, 50/60 Hz		
Supply Current	135 mA maximum		
Power Consumption	3.24W		
Input Relay, Contact Closure, Transistor or Triac (Select at J2)	12-24 VAC/VDC signal trigger level or dry contact to common 1 millisecond minimum between "ON" pulses		
Input Signal Trigger Level	Normal Mode: 5-26.4 VDC/VAC	Triac Mode: 9-26.4 VAC	Using Rectified DC Power Output: 21-37 VDC
Input Impedance	VAC-900Ω nominal	VDC-1500Ω nominal	
Ranges (Version 1)	0.02-5 seconds	0.1-10 seconds	0.1-25.5 seconds
Ranges (Version 2)	0.023-6 seconds	0-10 seconds Duty Cycle Pulse	
Output Voltage	0-10 VDC		
Output Impedance	400Ω minimum		
Accuracy	+/-5%		
Rectified DC Power Output	21-37 VDC (For Input Trigger Only). Range dependent on if AC or DC power is supplied		
Operating Temp/RH	32 to 120°F (0 to 48.9°C)/5 to 95% non condensing		
Product Dimensions	(L) 2.20" (W) 2.25" (H) 1.00"		

Ordering

Please select a Range option (A). Choose an Optional Accessory (1) if desired. **NOTE:** The last output signal is held until the PTA2 receives the end of the next pulsed input signal for the standard version.

A Range

- (0.2 to 5 Seconds, 0-10 Seconds, 0.1 to 25.5 Seconds, 0.59 to 2.93 Seconds)
- Version 2** (0 to 10 Seconds Duty Cycle in 10 Second Window, 0 to 25.5 Seconds Duty Cycle in 25.5 Second Window, 0.023 to 6 Seconds)

1 Optional Accessories

- (None)
- ENC1** (ENC1 Enclosure)

Build your part number

After completing (A) from the above table, fill in the Part Number Table below. (1) is an Optional Accessory. The "Sensor Series" is a factory default. An example part number is offered.

PTA2

Sensor Series

A

EXAMPLE: PTA2 - Version 2

1

EXAMPLE: ENC1

