



## Product Data

# PTA2

Pulse width modulated input  
to analog 0-10 VDC output

## Product Description

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 0-10VDC 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, which is located in the front of ACI'S SENSORS & TRANSMITTERS CATALOG or can be found on ACI's Website, which is: [www.workaci.com](http://www.workaci.com).

Specify: **PTA2**  
**ENC1** (Optional Enclosure)

## Product Specifications

Supply Voltage	24VAC or 24VDC +/-10%, 50/60 Hz
Supply Current	135mA maximum
Power Consumption	3.24 watt
Relay, contact closure, transistor or triac (select at J2)	12-24VAC/VDC signal trigger level or dry contact to common 1 millisecond minimum between "ON" pulses
Signal Trigger Level	Normal Mode: 5 - 26.4VDC/VAC Triac Mode: 9 - 26.4VAC Using Rectified DC Power Output 21 - 37VDC
Impedance	VAC-900Ω nominal, VDC-1500Ω nominal
Ranges	1) .02-5 seconds, 2) .1-10 seconds, 3) .1-25.5 seconds, 4) .59-2.93 seconds.
Output Voltage	0-10VDC
Output Impedance	400Ω minimum
Accuracy (including manual)	+/-5%
Rectified DC Power Output	21-37VDC (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
Approval	RoHS

Wiring Diagrams available at [www.workaci.com](http://www.workaci.com)

## Interface Devices



### Attributes:

- Four field selectable preset input ranges
- Jumper selectable triac adapter
- 255 step resolution
- No wrap-around
- Manual override capability
- Snap track included

### Applications:

- Interface to variable speed pump drive control
- Interface to variable frequency fan drive control
- Interface to electric actuator
- Can be used with an ATP to transduce one pulse range to another
- Interface for Electric Actuator



Made in the USA

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TEMPERATURE

RELATIVE HUMIDITY

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