

PULSE TO ANALOG TRANSDUCER

- Field Selectable Preset I/O Ranges
- User Adjustable Output
- Status indicators
- No Wrap-Around

PTA

The PTA converts a single pulse-width modulated input to an analog current or voltage output. There are two LED indicators that designate signal and power. A timed contact or solid state closure from the controlling microprocessor controller is converted to a linear analog output with 256 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. Eight preset analog output signals are DIP switch selectable. In addition, the gain and offset potentiometer offer maximum user adjustability of the output signal. The input signal is optically isolated and can accept either positive or negative polarity.

Some applications of the PTA include variable speed pump drives, pulse to analog transducer, variable frequency fan drive control, digital to analog conversion, signal isolation, and electric actuator control.



TECHNICAL DATA

<i>SUPPLY:</i>	24V AC OR DC +/- 10%
<i>CURRENT:</i>	45 mA max
<i>TRIGGER LEVEL:</i>	Dry contact to common or 5-24 VAC/VDC (triac requires adapter kit)
<i>TIME BETWEEN PULSES:</i>	1 millisecond min
<i>PULSE DURATION/RESOLUTION:</i>	Range in seconds of dry contact, Triac or SSR closure +/- 40% of input single increment, 0.23 to 6 or 1 to 25.5 or .02 to 5 or .59 to 2.93 seconds / in 0.01 second increments
<i>VOLTAGE RANGE:</i>	Adjustable Range: 0 to 16 VDC (with adjustable offset)
<i>CURRENT RANGE:</i>	Adjustable Range: 0 to 20 mA (with adjustable offset)
<i>ACCURACY:</i>	+/- 5% nominal full scale (fixed); +/- 1% full scale (adjustable)
<i>LOAD IMPEDANCE:</i>	Current-0 to 750 ohm max; Voltage-1000 ohm to infinity min
<i>DIMENSIONS:</i>	3.25" L x 2.25" W x 1.5" H, mounted on a snaptrack
<i>OPERATING:</i>	-20 to 150 deg F, 10% to 95% non-condensing rH

ORDERING DATA

PTA - User adjustable voltage or current output

PTA2 - User adjustable voltage output only

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