



**PULSE WIDTH MODULATED INPUT TO ANALOG CURRENT OR VOLTAGE OUTPUT
MODEL PA13**

FEATURES:

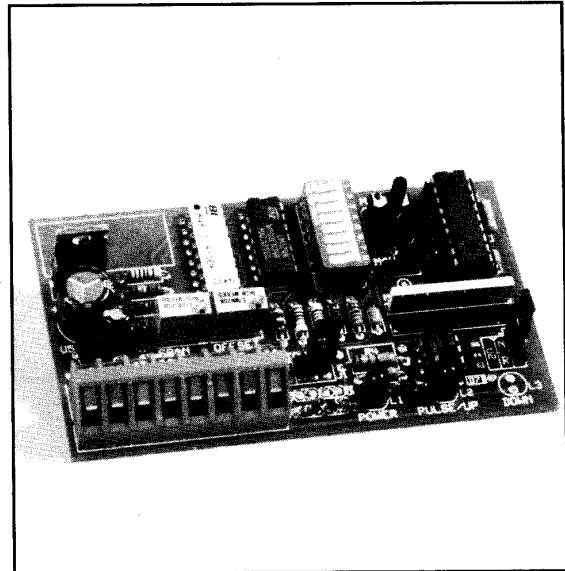
- * 3 Field Selectable Preset Inputs
- * 10 Field Selectable Preset Outputs
- * Current or Voltage Output
- * Quartz Accuracy
- * 255 Step Resolution
- * Input to Output Resolution
- * LED Status Indicators
- * Dial Potentiometer for manual override of output
- * Accepts Triac input
- * Reverse Acting in jumper selectable
- * No Wrap-Around

APPLICATIONS:

- * Variable Speed Pump Drives
- * Pulse to Analog Transducer
- * Duty Cycle to Analog Control
- * Digital to Analog Conversion
- * Signal Isolation
- * Electric Actuator Control

DESCRIPTION:

The PA13 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 255 steps of resolution. The last output signal is held until the PA13 receives the end of the next pulsed input



signal. The PA13'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 adjustability of the output signal. The input signal is optically isolated and can accept either positive or negative polarity.

ORDERING INFORMATION:

Specify: **PA13**
Custom Pulse Input Ranges Available

SPECIFICATIONS:

ELECTRICAL REQUIREMENTS

Power Supply

Supply Voltage	Regulated 24 vdc minimum, 35 Vdc maximum Regulated 22 to 28 Vac
Supply Current:	45 mA max





Input

Trigger Level: Dry contact to common or 5-24 Vdc/Vac +/- 10%

Time Between Pulses: 1 millisecond min

Pulse Duration/Resolution: Range in seconds of dry contact, Triac or SSR closure +/- 40% of input signal increment
1 to 25.5 seconds (Andover™)
.02 to 5 seconds (Johnson Controls™)
0.59 to 2.93 seconds/in 0.01 second increments (Novar™)

Output

Voltage Range: Pre-set Spans; Dip Switch selectable:
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 14 Vdc 1 to 16 Vdc
Adjustable Range: 0 to 16 Vdc (with adjustable offset)

Current range: 0 to 16mA 4 to 20 mA
Adjustable Range: 0 to 20 mA (with adjustable offset)

Accuracy: +/- 2% of Span for all ranges, fixed or adjustable

Load Impedance Current- 0 to 750 ohms max
Voltage- 1000 ohms to infinity min

MECHANICAL REQUIREMENTS

Connections

Wire size: Up to one 14 gauge max

Terminal Type: Captive screw, moving clamp design in nickel plated copper alloy

Measurements:

Dimensions: 3.75" L x 2.25" W x 1.5" H

Weight: 1.5 oz

Mounting: Furnished with 3.75" length of 2.25" wide snaptrack

ENVIRONMENTAL REQUIREMENTS

Operating Temperature: -20 to 150 deg F

Operating Temperature: 10% to 95% non-condensing

Specifications may change without notice.

Call for Other Calibration ranges and Versions.

