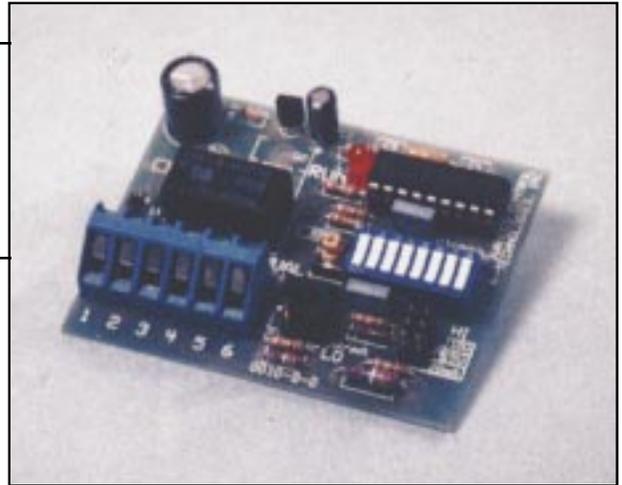


FEATURES

- Voltage or current input
- User selectable pulse timing range outputs
- LED to monitor operation
- Mounts in snaptrack or ENC1 Enclosure

APPLICATIONS

- Analog Interface to York™ Chiller Control Package (1-11 sec. and 1-21 sec. pulse range)
- Analog Control of Solid State Relays for Electric Heat with positive OFF below 10% signal input span
- Analog to pulse width control
- Analog to frequency control
- Analog to triac control



PRODUCT DESCRIPTION

ATP Version 1 converts an analog signal into a digital pulse output signal. The user can select eight standard analog input ranges to the ATP by changing jumper shunt positions. To select the output pulse range, the ATP has an eight position DIP switch. The output pulse is continuous with a one second off between pulses.

ATP Version 2 operates the same except when the analog input falls at or below 10% of the input signal range, no pulse output occurs. This allows for a true "OFF" setting for solid state relays controlling electric heat.

The ATP has two timing ranges, standard and custom selectable. **The standard mode**, selected by DIP switch 1 "ON" and proper setting of switches 2 and 3, allows four different timing ranges. Switches 4 through 8 are not active when switch 1 is on.

Standard Mode:

Solidyne	.023 to 6 seconds
Andover	.1 to 25.5 seconds
Johnson	.02 to 5 seconds
Novar	.59 to 2.93 seconds

The Custom Mode allows for 128 pulse timing ranges. With dip switch 1 "OFF", switches 2 through 8 select the timing values. One or more switches can be selected. Refer to the chart on the Installation Instructions. For example, if switch 2 and 3 were "ON" (50 milliseconds + 100 milliseconds), each A/D step would equal 150 milliseconds (ms). Let us assume an analog input signal of 0-10V. With switches 2 and 3 "ON" the total of 150ms would equal 0 VDC. We can see on the chart that at 10VDC, the values for switches 2 and 3 "ON" are 12.8 seconds and 25.6 seconds respectively, totaling 38.4 seconds. Thus the pulse width output range is 150ms to 38.4 seconds. All switches off equal 25ms per step.

ORDERING INFORMATION

Specify: ATP _____ Version 1 _____ or Version 2 _____ with _____ ENC1 Enclosure?

- R Form C Relay Output
- T Triac Output *Call for technical assistance in ordering*
- O Opto-isolator transistor output. For Frequency. *Call for technical assistance in ordering*
- Y Form C Relay Output. York™ 1-11 and 1-21 second pulse range - Version 1 only

SPECIFICATIONS

Electrical Requirements

Power Supply

Supply Voltage 24VAC or 24 VDC +/-10%, measured at ATP terminals
Supply Current 50mA

Analog Input:

Voltage/Impedance Version 1 and 2: 0-15VDC/1,000,000 ohms

Current/Impedance 0-20mA/250 ohms

Mechanical Requirements

Digital Output - Relay

Form "C" Relay 2 amp @ 24 volts
Electrical Life 100,000 @ 2 amp
Mechanical Life 10 million operations

Digital Output - Triac

Triac 3 amp @ 24 volts (22-28 volts)

Connections

Wire Size Up to one 14 gauge maximum
Terminal Type Captive screw, moving clamp design in nickel plated copper alloy

Dimensions

Weight 2 oz.
Mounting Furnished 2.75"L X 2.25"W snap track (ENC1 optional)

Environmental Requirements

Operating Temperature -20 to 150 deg F
Operating Humidity 10 to 95% non-condensing