

FEATURES

- Four Field Selectable Preset Input Ranges
- Jumper Selectable Triac Adapter
- 255 Step Resolution
- No Wrap-Around
- Manual Override Capability
- Mounts in Snap Track or ENC1 Enclosure

PRODUCT DESCRIPTION

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 PTA2 receives the end of the next pulsed input signal. The PTA2 will not wrap around if an excessively long pulse is received. Four input pulse rates are jumper selectable. The input signal is opti-

cally 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.



ORDERING INFORMATION

Specify: **PTA2 Version** _____ with _____ **ENC1 Enclosure?**
 1 or 2 (see below) Other pulse ranges can be special ordered

SPECIFICATIONS

Electrical Requirements

Power Supply

Supply Voltage	24 VAC or 24 VDC +/-10%
Supply Current	35 mA
Power Consumption	1 watt
Transformer Sizing:	2 VA

Input

Relay, contact closure, transistor or triac (select at J2)

Impedance:

Version 1:

Version 2:

12-24 VAC/VDC signal trigger level or dry contact to common
1 millisecond minimum between "ON" pulses

VAC-900 ohms, VDC-1500 ohms

.02-5 seconds, .1-10 seconds, .1-25.5 seconds, .59-2.93 seconds.

0-10 second Duty Cycle Pulse (a continuous pulse signal command string sampled in 10 sec. window) and .023-6 seconds.

Output

Voltage	0-10 VDC
Impedance	1000 ohms
Accuracy (including manual)	+/-5%

Connections:

Wire Size

Up to one 14 gauge maximum

Dimensions

Weight

1.5 oz.

Mounting

Furnished with 2.2"L of 2.25" snaptrack (ENC1 optional)

Environmental Requirements

Operating Temperature

32 to 120 deg. F

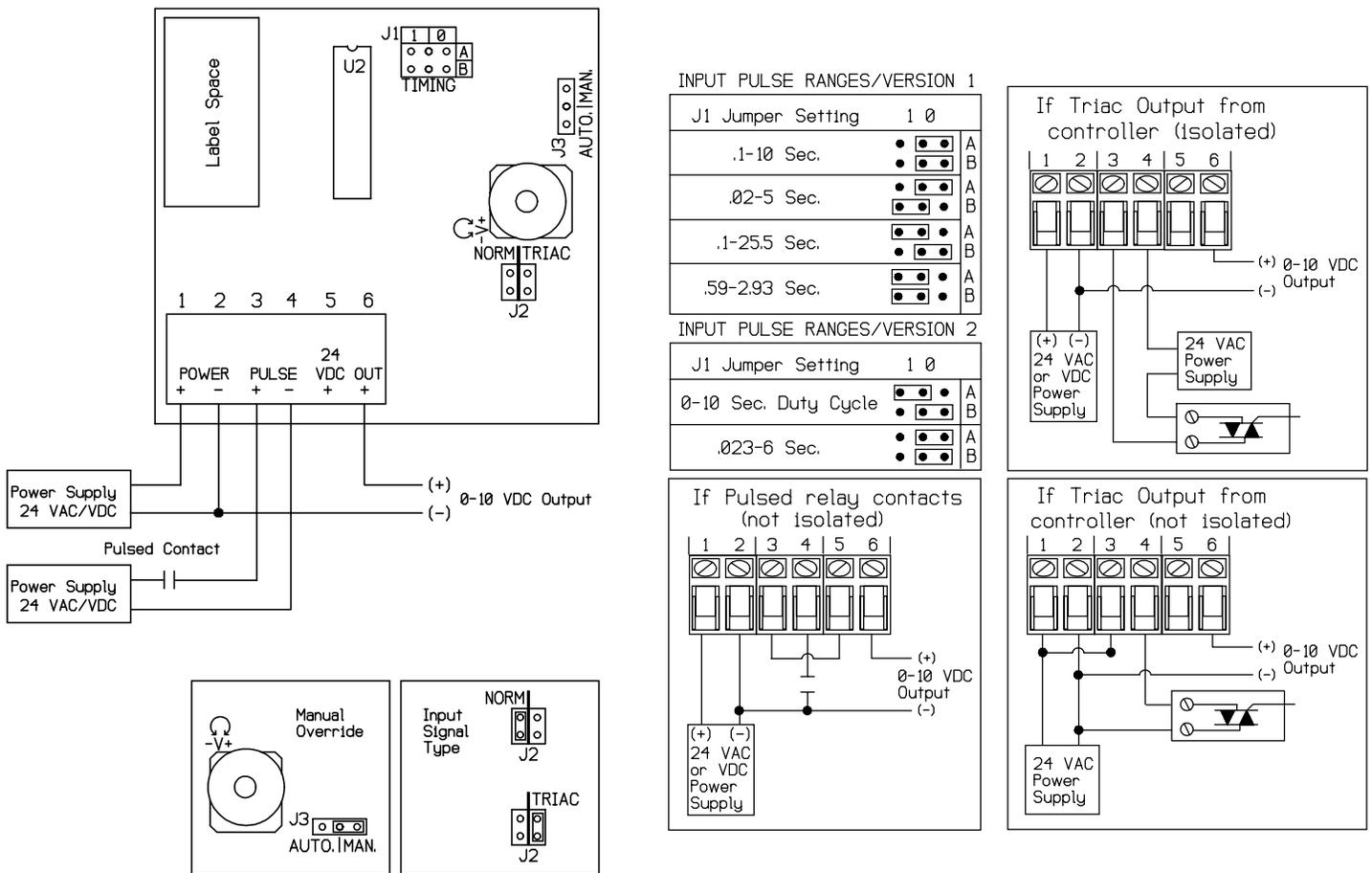
Storage Temperature

-20 to 150

Operating Humidity

5 to 95% non-condensing

Pulse width modulated input to analog 0-10VDC output



READ THESE INSTRUCTIONS BEFORE YOU BEGIN INSTALLATION

Ground yourself to discharge static electricity before touching any electronic equipment, as some components are static sensitive. The interface device can be mounted in any position. If circuit board slides out of snap track, a non-conductive "stop" may be required. Use only fingers to remove board from snap track. Slide out of snap track or push up against side of snap track and lift that side of the circuit board to remove. Do not flex board or use tools.

POWER CONNECTIONS

Be sure to follow all local and electrical codes.

Refer to wiring diagram for connection information.

- 1) The secondary supply voltage to the interface should be isolated from earth ground, chassis ground, and neutral leg of the primary winding. Any field device connected to this transformer must use the same common. If you are not sure of other field device configuration, use separate transformers.
- 2) If the 24 volt AC or DC power is shared with other devices that have coils such as relays, solenoids, or other inductors, each coil must have a diode, MOV, Transorb, or other spike snubbing device across each of the shared coils. Without these snubbers, coils produce very large voltage spikes when de-energizing that can cause malfunction or destruction of electronic circuits.

SETUP

Set Jumper J1 for pulse timing range. Version One has four jumper selectable ranges, Version Two has two (2) jumper selectable ranges. Set Jumper J2 for normal or triac input, and J3 for MAN in order to checkout connections by using manual override potentiometer. Reset J3 to AUTO for normal operation.

Version #2 0-10 Second Duty Cycle mode accepts a continuous pulse signal command string, sampled in a 10 second window. No pulse within a 10 second window produces minimum % output (0 volts). Ten second or continuous pulse produces a 100% output (10 volts).