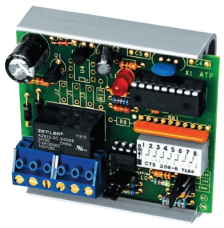


ATP

Analog Current/Voltage to PWM Output

The **ATP-R** 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 time between pulses. The **ATP-R Version 2** operates the same except no pulse output occurs when the analog input falls to, or below, 10% of the input signal range. This allows for a true "OFF" setting for solid state relays controlling electric heat. The **ATP-T** is a Triac Output (24 VAC only). Both the **ATP-R** and **ATP-T** versions have two timing ranges, standard and custom selectable. The standard mode allows four different timing ranges set by the DIP switch. The Custom Mode allows for 128 pulse timing ranges. The **ATP-Y** is also a Form C Relay Output (24 VAC or VDC) with an option of two pulse output ranges designed to communicate with York™ Chiller Control Packages. Some chiller control panels required a 1-11 or 0-21 second pulse to remotely reset chilled water temperatures. Specify one of two pulse ranges when ordering.

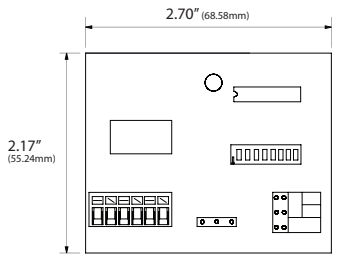
Applications: Analog Interface to some York™ Chiller Control Packages that require 1-11 second or 0-21 second pulse signal to reset the chilled water temperature, Analog Control of Solid State Relays for Electric Heat (no pulse output below 10% signal input span), Analog to pulse width output, Analog to (AC) triac output

The ATP is covered by ACI's Two (2) Year Limited Warranty. The warranty can be found in the front of ACI's Sensors & Transmitters catalog, as well as on ACI's website.

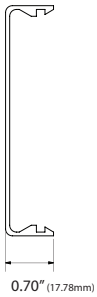
PRODUCT SPECIFICATIONS

Supply Voltage:	24 VAC or 24VDC, (+/- 10%), 50/60 Hz
Supply Current:	50 mA maximum
Input Voltage Signal Range (@ Impedance):	0-5 VDC, 0-10 VDC, 0-15 VDC, 1-5 VDC, 2-10 VDC, 3-15 VDC @ 1,000,000Ω
Input Current Signal Range (@ Impedance):	0-20 mA, 4-20 mA @ 250Ω
Output Pulse Timing Ranges (Standard Mode):	**Solidyne™** (0.023-6s) | **Andover™** (0.1-25.5s) | **Johnson™** (0.02-5s) | **Novar™** (0.59-2.93s)
Output Pulse Timing Ranges (Custom Mode):	Allows for 128 pulse timing ranges
Output Digital Type, Relay Version (ATP-R, ATP-Y):	Form "C" Relay
Relay Contact Rating:	2A @ 24 VAC or 24 VDC
Relay Electrical Life:	100,000 operations @ 1A, 24 VDC
Relay Mechanical Life:	10,000,000 operations
Output Digital Type, Triac Version (ATP-Y):	3A @ 24 VAC only (22-28V)
Connections:	90° Pluggable Screw Terminal Blocks
Wire Size:	16 (1.31 mm²) to 26 AWG (0.129 mm²)
Terminal Block Torque Rating:	0.5 Nm (Minimum); 0.6 Nm (Maximum)
Operating Temperature Range:	35 to 120°F (1.7 to 48.9°C)
Operating Humidity Range:	10 to 95% non-condensing
Storage Temperature:	-20 to 150°F (-28.9 to 65.5°C)
Snaptrack Material:	Polyvinyl Chloride (PVC)
Snaptrack Flammability Rating:	UL94 V-0
Product Dimensions:	(L) 2.70" (W) 2.18" (H) 1.00" (68.58 x 55.24 x 25.4 mm)
Product Weight:	0.18 lbs. (0.082 Kg)
Agency Approvals:	RoHS2, WEEE

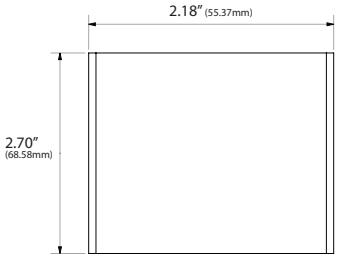
DIMENSIONAL DRAWING



Board Only



Snap Track



Snap Track

STANDARD ORDERING

Model # Example: AFP -OR- 106317

Model #	Item #	Firmware Version #	Type of Output	Additional Information
ATP-R	128306	0010y0A.HEX	Relay	----
ATP-R VERSION #2	129727	0438Y0A.HEX	Relay	No Pulse Output (When Analog Input falls ≤ 10% of the input signal range)
ATP-T	141033	0010y0A.HEX	Triac	----
ATP-T VERSION #2	130111	0438Y0A.HEX	Triac	No Pulse Output (When Analog Input falls ≤ 10% of the input signal range)
ATP-Y (1-11)	110588	01000300.OBJ	Relay	1-11 Seconds Pulse for York Chiller Packages
ATP-Y (0-21)	128424	0208Y0A.OBJ	Relay	0-21 Seconds Pulse for York Chiller Packages

ACCESSORIES

Model # Example: A/DO008 -OR- 142583

Model #	Item #	Description
A/DO008	142583	Transient Voltage Suppressor, Bi-directional, 56 tVAC/DC, 1500W
A/DRC 2.7 X 2.18	142626	DIN Rail Adapter Kit
ENC1	102472	20 Gauge Metal Enclosure, Designed to Hold Interfaces Products