ACTION PAK®
AP4570
MODEL

CSA®

Benefits

- Digital Design Prevents Output "Droop"

- Peak Detection Applications

- Low-Cost "Sample & Hold" Applications

- AC Line Powered

- Three Year Warranty

ACTION INSTRUMENTS

Protecting the Integrity of Industrial Process Signals

Track-Hold/Peak-Hold Process Function

Provides Signal "Track & Hold" or "Track & Peak Hold" Capability

DESCRIPTION

The AP4570 offers two modes of operation - Track & Hold and Track & Peak-Hold. In "Track & Hold" operation the output tracks the input signal. When an external contact is closed, the input level is "saved" and its corresponding output signal is held indefinitely until the contact is opened. Releasing the hold switch (pins 8 and 11) allows the output to again follow the input. The "Track & Peak-Hold" mode is similar to "Track & Hold" operation except upon contact closure (pins 8 and 11) the highest input is "saved" and the corresponding output is held until a higher signal level occurs.

APPLICATION

Model AP4570 is useful in capturing DC-input signals to be held for further processing or signal-conditioning. Typical applications include monitoring peak electrical or energy demands, capturing process conditions such as flow rates, equipment protection and taring to factor out unwanted dead weight.

OPTIONS

CS Canadian Standards Association Certification.
U Urethane coating of internal circuitry for protection from corrosive atmospheres

CALIBRATION

Top-accessed screwdriver adjustments provide typical ±10% zero and span adjustability. Calibration is referred to input in that adjustments are to correct for input/sensor variations. Zero is adjusted for the specified minimum output with the input at the desired minimum. Span is adjusted for the specified maximum output with the input at the desired maximum. Repeat adjustments for maximum accuracy.

FACTORY ASSISTANCE

For additional information on calibration, operation and installation please contact Action's Technical Services Group. Call:

703-669-1318

Invensys
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SPECIFICATIONS

Input Impedance	Voltage Input: >200KΩ	**Output Ripple**	0.25% of max. span, rms or 2mV, whichever is greater
	Current Input: 20Ω	**Common Mode**	
Output Impedance	Voltage Output: <10Ω	**Rejection**	60 Hz: >80dB
	Current Output: >100KΩ		DC: >100dB
Output Drive	Voltage Output: 10mA, max (1KΩ, min. @ 10V)	**Common Mode Voltage**	600V DC or peak AC max
	Current Output: 15V compliance @ 20mA (750Ω, max)	**Temperature Range**	Operating: 0 to 60°C (32 to 140°F)
Response Time	100msec. typical		Storage: -20 to 85°C (-4 to 185°F)
Linearity	±0.05% of span, typical	**Power**	Consumption: 3W typical, 5W max
Output Resolution			Standard: 120VAC (±10%, 50-400Hz)
(digital tracking)	1 part in 512		Available: 240VAC (±10%, 50-400Hz)
Stability (15-minute		**Weight**	0.56lbs
warm-up)	±0.02%/°C typical		

Table 1:AP4570
Standard Input/Output Ranges*

0-1V	1-5V	10-50mA
0-5V	0-10V	4-20mA

Table 2: AP4570 Input Limits

Minimum Span		Maximum Input	
Voltage	Current	Voltage	Current
100mV	1mA	200V	1 A

Table 3: AP4570 Output Limits

Minimum Span		Maximum Output	
Voltage	Current	Voltage	Current
100mV	1mA	10V	50mA

* *Consult factory for non-standard I/O ranges.*

DIMENSIONS
Dimensions are in mm (inches)
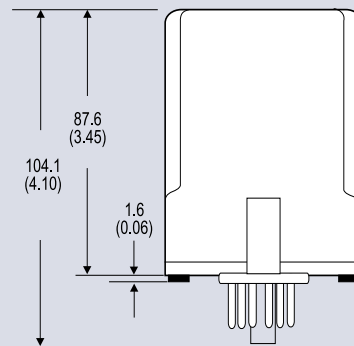
M011 (Track/Surface)

Retaining Spring
Available: Model M801
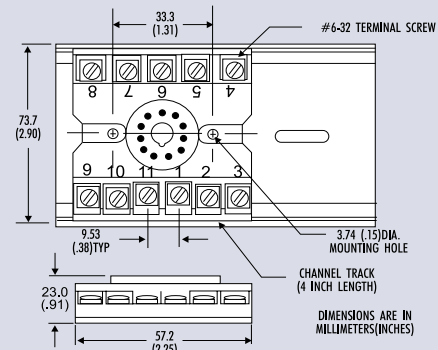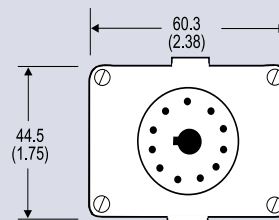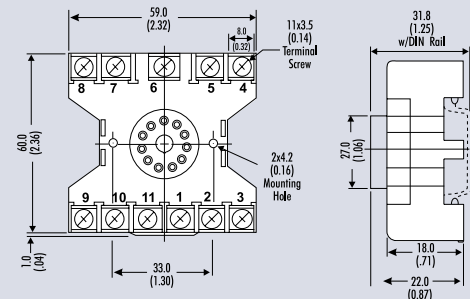
MD11 (DIN/Surface)

MODELS & ACCESSORIES

Mounting

AAll Action Paks feature plug-in installation. Model AP4570 uses an 11-pin base and either molded socket M011, or DIN rail MD11.

Ordering Information

Specify:
1. Model: **AP4570**
2. Input Range (see Tables 1, 2)
3. Output Range (see Tables 1, 3)
4. Options: CS, U (see text)
5. Line Power (see specs.)

(All power supplies are transformer-isolated from the internal circuitry.)

Pin Connections

1   AC Power (Line)
2   Shield (Gnd)
3   AC Power (Neu)
4   Input (+)
5   Input (-)
6   Mode Select ⎤ Open: Track & Hold
7   Mode Select ⎦ Closed: Track & Peak/Hold
9   Output (+)
10 Output (-)
8   Hold Select ⎤ Open: Track
11 Hold Select ⎦

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