

# ACTION PAK® AP4502 MODEL



## Benefits

- Cost-Effective Multiple Input Processing
- "Bumpless" Transfer Prevents Equipment Damage
- Relay Contacts for Channel Status
- Easy Plug-in Installation/ Low Mean-Time-to-Repair
- AC Line Powered
- Three Year Warranty



## High Input Select, Process Function

Provides a DC Output in Proportion to the Highest of 2 Inputs

### DESCRIPTION

Action Pak model AP4502 high input select transmitter provides a DC output in proportion to the highest of 2 channel inputs. When one input level exceeds the other, the output smoothly transfers to reflect the new higher input. This action is commonly called "bumpless" transfer. A set of SPST reed relay contacts is provided for each input, which identify the highest channel.

### APPLICATION

The AP4502 is useful in applications that require process decision-making. Typical applications include multipoint temperature, flow and level monitoring. The output of the AP4502 can drive a digital meter for direct display, a limit alarm for multipoint monitoring or interface with a computer for monitoring & control applications.

### OPTION

U Urethane coating of internal circuitry for protection from corrosive atmospheres.

### CALIBRATION

Top-accessed screwdriver adjustments provide typical  $\pm 10\%$  zero and span adjustability. Calibration is referred to the input in that adjustments are to correct for input/sensor variations. Set channel B at or below the units listed input range. (e.g. 0mA) Zero is adjusted for the specified minimum output (e.g., 4mA) with channel A at the desired minimum. Span is adjusted for the specified maximum output (e.g., 20mA) with channel A at the desired maximum. Repeat adjustments for best accuracy.

### FACTORY ASSISTANCE

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

800-767-5726



*Protecting the  
Integrity of  
Industrial  
Process Signals*



## SPECIFICATIONS

<b>Input Impedance</b>	Voltage Input: >200K $\Omega$ Current Input: 20 $\Omega$
<b>Output Impedance</b>	Voltage Output: <10 $\Omega$ Current Output: >100K $\Omega$
<b>Output Drive</b>	Voltage Output: 10mA, max (1K $\Omega$ , min. @ 10V) Current Output: 15V compliance @ 20mA (750 $\Omega$ , max)
<b>Response Time</b>	100msec., typical
<b>Linearity</b>	$\pm 0.05\%$ of span, typical
<b>Stability (15-minute warm-up)</b>	$\pm 0.02\%/^{\circ}\text{C}$ , typical
<b>Output Ripple</b>	0.25% of max. span, rms or 5mV whichever is greater

<b>Common Mode Rejection</b>	60 Hz: >80dB DC: >100dB
<b>Common Mode Voltage</b>	600V DC or peak AC, max
<b>Temperature Range</b>	Operating: 0 to 60 $^{\circ}\text{C}$ (32 to 140 $^{\circ}\text{F}$ ) Storage: -20 to 85 $^{\circ}\text{C}$ (-4 to 185 $^{\circ}\text{F}$ )
<b>Power</b>	Consumption: 3W typical, 5W max Standard: 120VAC ( $\pm 10\%$ , 50-400Hz) Available: 240VAC ( $\pm 10\%$ , 50-400Hz)
<b>Relay Contacts</b>	Type: SPST Rating: 100VDC @ 250mA
<b>Weight</b>	0.58lbs

**Table 1: AP4502 Standard Input/Output**

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

**Table 2: AP4502 Input Limits**

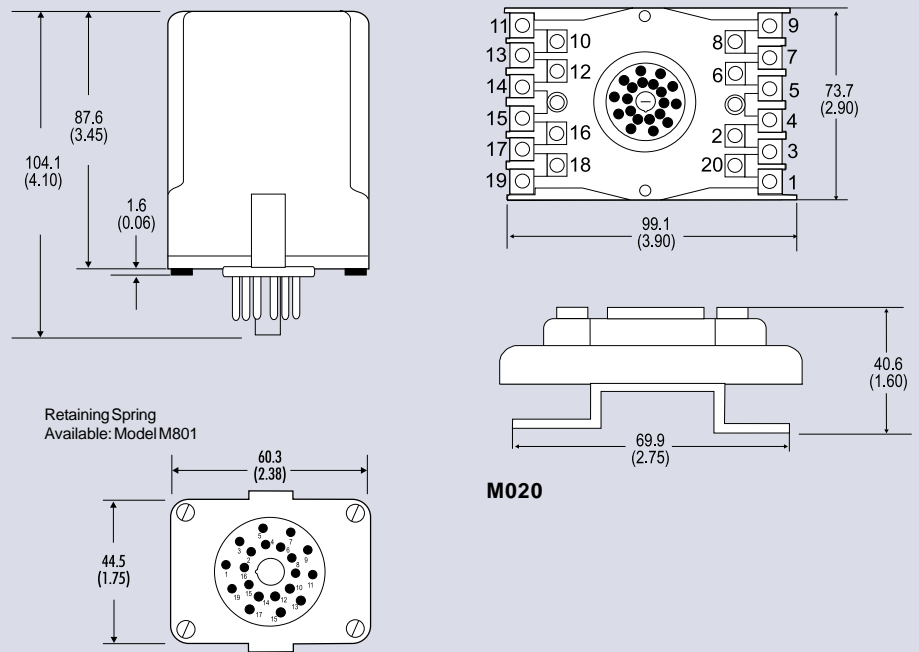
Minimum Span		Maximum Input	
Voltage	Current	Voltage	Current
100mV	1mA	200V	1A

**Table 3: AP4502 Output Limits**

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

## DIMENSIONS

Dimensions are in mm (inches)



## MODELS & ACCESSORIES

### Mounting

All Action Paks feature plug-in installation. Model AP4502 uses a 20-pin base track mount molded socket (M020). For an 11-pin model (no relays) contact factory.

### Ordering Information

Specify:

1. Model: **AP4502**
2. Input Range (see Tables 1, 2)
3. Output Range (see Tables 1, 3)
4. Options: U (see text)
5. Line Power (see specs)

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

### Pin Connections

1 AC Power (Line)	15 No Connection
2 Shield (Gnd)	16 No Connection
3 AC Power (Neu)	17 Output (+)
4 Input A (+)	19 Output (-)
5 Input B (+)	18 No Connection
6 No Connection	20 No Connection
7 No Connection	
8 Input (-)	
9 C _____ A Relay	
10 N.O. _____	
11 C _____ B Relay	
12 N.O. _____	
13 No Connection	
14 No Connection	

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