

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



**ACTION
INSTRUMENTS**

*Protecting the
Integrity of
Industrial
Process Signals*

 **invensys**
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SPECIFICATIONS

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

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

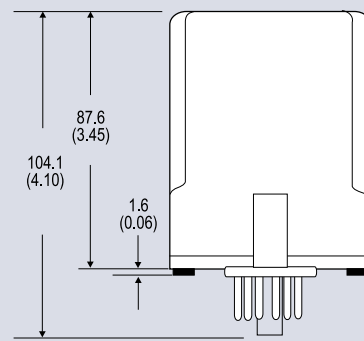
Minimum Span		Maximum Input	
Voltage	Current	Voltage	Current
100mV	1mA	200V	1A

Table 3: AP4502 Output Limits

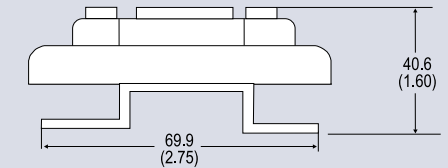
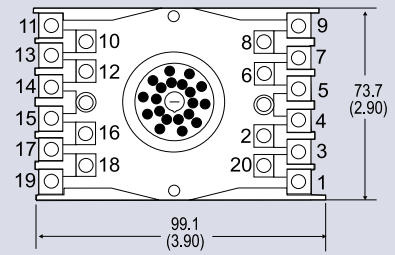
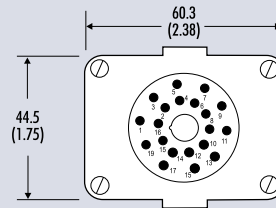
Minimum Span		Maximum Output	
Voltage	Current	Voltage	Current
100mV	1mA	10V	50mA

DIMENSIONS

Dimensions are in mm (inches)



Retaining Spring
Available: Model M801



M020

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:

- Model: **AP4502**
 - Input Range (see Tables 1, 2)
 - Output Range (see Tables 1, 3)
 - Options: U (see text)
 - 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 | |

大连爱克新仪器有限公司

地址: 辽宁省大连市中山区七七街23号海鹰大厦403室 邮编: 116001

电话: 0411-82650498 82597851 传真: 0411-82650478

网址: 爱克新产品 <http://www.actionio.com.cn>

e-mail: sales@actionio.com.cn support@actionio.com.cn

网址: 欧陆产品 <http://www.eurotherm.com.cn>

e-mail: sales@eurotherm.com.cn support@eurotherm.com.cn

