



### Features

- ★ Low cost.
- ★ Bright LED height 14.2mm (Red).
- ★ Serial data output.
- ★ Thin case (Depth 32mm).
- ★ 5Vdc (Isolated).
- ★ 200mV to 200V, 200μA to 2A measurement.

### Ordering code

AP - 502A -   

Code	Input range
11 to 14	DC voltage (11 to 14 range)
21 to 25	DC current (21 to 25 range)

### Input Specifications

#### ◆ DC voltage

Model	Measurement range	Resolution	Impedance	Max. allowable input	Accuracy (23±5°C 35 to 85%RH)
AP-502A-11	±199.9mV	100μV	100MΩ	±250V	±(0.1% reading + 1 digit)
AP-502A-12	±1.999V	1mV	100MΩ	±250V	
AP-502A-13	±19.99V	10mV	10MΩ	±250V	
AP-502A-14	±199.9V	100mV	10MΩ	±500V	

#### ◆ DC current

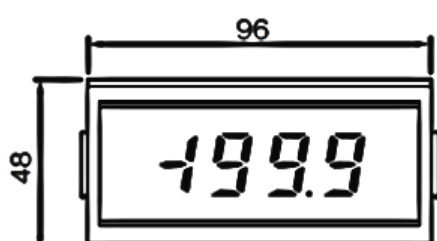
Model	Measurement range	Resolution	Impedance	Max. allowable input	Accuracy (23±5°C 35 to 85%RH)
AP-502A-21	±199.9μA	100nA	1kΩ	±10mA	±(0.2% reading + 1 digit)
AP-502A-22	±1.999mA	1μA	100Ω	±50mA	
AP-502A-23	±19.99mA	10μA	10Ω	±150mA	
AP-502A-24	±199.9mA	100μA	1Ω	±500mA	±(0.3% reading + 1 digit)
AP-502A-25	±1.999A	1mA	0.1Ω	±3A	

### Specifications

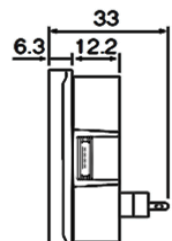
Operating method	Double integral
Input configuration	Single ended
Input bias current	50pA (Typ.)
Sampling rate	2.5 times per second
Rejection	40dB or more (50/60Hz)
Display range	Max. 1999 (3 1/2 digits)
Over range display	When input exceeds the max. display, 1999 flashes
Display	Red 7 segment LED (height 14.2mm)
Polarity	'-' is displayed at negative polarity
External control	Hold : Hold when 0V (Short the terminal between HOLD terminal and COM terminal) Decimal point : Able to set to any digit by terminal between D.P and COM
External output	Serial data output
Operating temperature	0 to 50°C
Operating relative humidity	35 to 85% (non-condensing)
Power supply	5Vdc ±5% 120mA max.
Power consumption	120mA max.
Dimensions	96mm(W) x 48mm(H) x 33mm(D) DIN size
Weight	Approx. 60g
Dielectric strength	500Vdc per 1 min. : Between input terminal (LO) and power supply terminal (0V) 1500Vac per 1 min. : Between input terminal (LO) and mounted plate
Insulation resistance	500Vdc, 100MΩ or more on the above terminals

### Dimensions

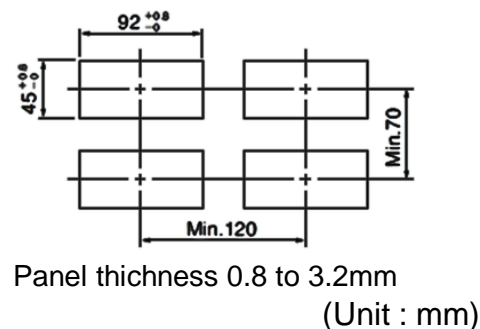
#### ◆ Front view



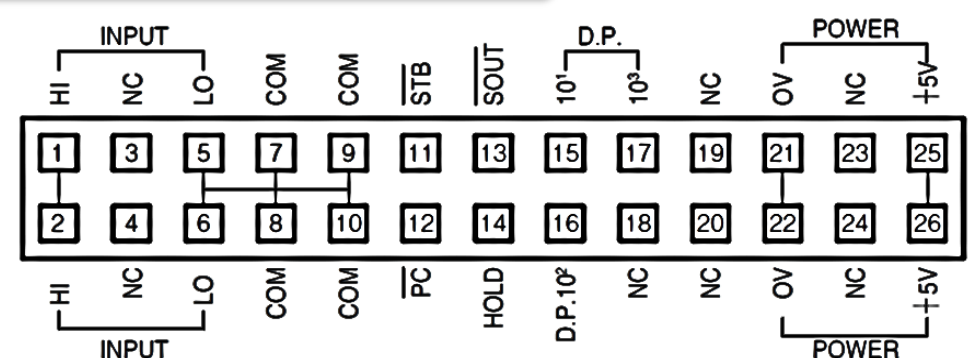
#### ◆ Side view



#### ◆ Panel cutout



### Terminal Connections



\* Specification is subject to change without notice