

# DC VOLTMETER & AMMETER

## AP-101

\*Standard 3 1/2 Digit



### ■ Features

- Low Cost
- Bright LED 14.2mm (Red)
- AC180~264V, 90~132V, DC5V, DC24V
- 200mV~200V, 200μA~2A Measurement
- ±800V Measurement (option)

### ■ DC Voltage Measurement

| Model     | Range    | Maximum Resolution | Input Impedance | Input Protection |
|-----------|----------|--------------------|-----------------|------------------|
| AP-101-11 | ±199.9mV | 100 μV             | 100M            | ±250V            |
| AP-101-12 | ±1.999 V | 1mV                | 100M            | ±250V            |
| AP-101-13 | ±19.99 V | 10mV               | 10M             | ±250V            |
| AP-101-14 | ±199.9 V | 100mV              | 10M             | ±500V            |

Accuracy: ±0.1% rdg. ±1 digit (23° C±5° C)

### ■ DC Current Measurement

| Model     | Range     | Maximum Resolution | Internal Resistance | Input Protection |
|-----------|-----------|--------------------|---------------------|------------------|
| AP-101-21 | ±199.9 μA | 100nA              | 1k                  | ±10mA            |
| AP-101-22 | ±1.999mA  | 1 μA               | 100                 | ±50mA            |
| AP-101-23 | ±19.99mA  | 10 μA              | 10                  | ±150mA           |
| AP-101-24 | ±199.9mA  | 100 μA             | 1                   | ±500mA           |
| AP-101-25 | ±1.999A   | 1mA                | 0.1                 | ±3A              |

Accuracy: ±0.2% rdg. ±1 digit (23° C±5° C)  
±0.3% rdg. ±1 digit only for AP-101-25

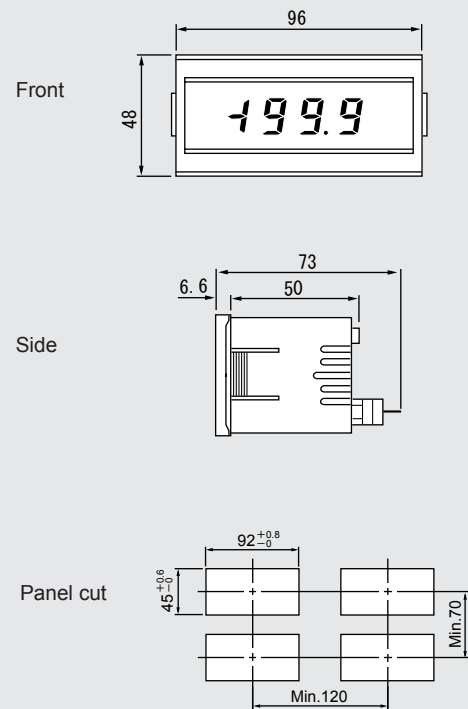
### ■ Specifications

Input Configuration: Single Ended  
 Input Bias Current: 50pA (Typ.)  
 Conversion Rate: 2.5/sec  
 Normal Mode Rejection: TYP. 40dB (50/60Hz)  
 Zero Stability: Automatic Zero Adjustment  
 Display: LED, 14.2mm 3 1/2-digit  
 Polarity: A “-” is displayed automatically  
 Decimal Point: Settable to any digit position  
 Overrange Indication: When input exceeds the maximum display, 1999 flashes.  
 Power Supply: AC90~132V  
 AC180~264V  
 DC5V±5%, 100mA (Max.)  
 DC24V±20%, 30mA (Max.)  
 Operating Temperature: 0~50° C, 35 to 85% RH  
 Power Consumption: 1.5VA  
 Dimensions: 48 (H) · 96 (W) · 73 (D)mm DIN Size  
 Weight: Approx. 150g (For AC), 85g (For DC)  
 Dielectric Strength: AC type: Between input (Lo) terminal and earth, DC500V  
 Between power supply terminal and input terminal, earth, common, case, AC1500V/1 min.  
 DC type: Between input (Lo) and power supply (0V), DC±500V  
 Insulation Resistance: DC500V 100M at above terminals  
 Conformed EN standard: EN61326-1, EN61010, EN IEC 63000

### ■ Ordering Code

AP-101-□□-□□  
 Power Supply  
 Range  
 1. AC90~132V  
 2. AC180~264V  
 3. DC5V (Isolated)  
 4. DC24V (Isolated)  
 11 21  
 14 25  
 15 ±800V (Option)

### ■ Dimensions



### ■ Connection Diagram

