

# SCALING METER

AS-103

AL-501



## ■DC Voltage Measurement

| Model     | Range | Display                                 | Input Impedance | Input protection |
|-----------|-------|-----------------------------------------|-----------------|------------------|
| AS-103-1V | 1~5V  | Offset $\pm 1000$<br>Fullscale 100~1999 | 1M $\Omega$     | 250V             |

Accuracy  $\pm 0.1\%$  rdg  $\pm 2$  digit ( $23^{\circ}\text{C} \pm 5^{\circ}\text{C}$ )

## ■DC Current Measurement

| Model     | Range  | Display                                 | Internal Resistance | Input Protection |
|-----------|--------|-----------------------------------------|---------------------|------------------|
| AS-103-2A | 4~20mA | Offset $\pm 1000$<br>Fullscale 100~1999 | 25 $\Omega$         | 100mA            |

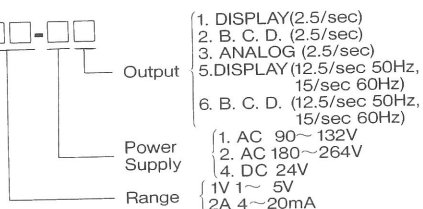
Accuracy  $\pm 0.1\%$  rdg  $\pm 2$  digit ( $23^{\circ}\text{C} \pm 5^{\circ}\text{C}$ )

## ■Specifications

- Input Circuit :** Single Ended, Floating method  
**Conversion Rate :** Approx. 2.5/sec or 12.5/sec(50Hz), 15/sec(60Hz)  
**Noise Elimination :** NMR40 dB or more (50Hz/60Hz)  
**Temperature Coefficient :** Offset Typ.  $\pm 0.1$ , Max.  $\pm 0.3$  digit/ $^{\circ}\text{C}$   
 Fullscale Typ.  $\pm 0.1$ , Max.  $\pm 0.3$  digit/ $^{\circ}\text{C}$   
**Fullscale Adjustable :** 100~1999  
**Offset Adjustable :**  $\pm 1000$   
**Span Range :** 2000 Counts  
**Polarity Indication :** When result of arithmetic operation is negative symbol (-) is automatically appeared  
**External Control :**  
 • Scaling  
 Can be adjust from front by fine volume  
 • Hold  
 Negative signal of 0V or terminal (Short)  
 • Start  
 0V to +5V positive pulse of more than 1ms or contact signal (Open)  
**Output :**  
 Open Collector for all output, Sink Current 10mA (Max.) Vce 30V (Max.)  
 • Data Output  
 Parallel BCD (Isolation)  
 • Polarity Output  
 Current sink when display is (+)  
 • Overrange Output  
 Current sink when input signal exceed 1999  
 • Print Command Output  
 Current sink for 1ms after measurement is finished  
**Analog Output :** 0.1mV/digit  
**Operating Temperature :** 0 to  $50^{\circ}\text{C}$   
**Power Supply :**  
 AC 90~132V  
 AC180~264V  
 DC 24V  $\pm 10\%$  30mA  
**Power Consumption :** Approx. 2 VA  
**Weight (Unit only) :** Approx. 220g  
**Accessories :** Instruction manual, BCD connector (option)  
**Dielectric Strength :** Between input terminal(Lo) and digital common, DC $\pm 300\text{V}$   
 Between power supply terminal and input terminal or earth(E) or common, AC1500V/min.

## ■Model Code

AS-103-□□-□□



## ■TWO-WIRE Process Monitor

| Model  | Range  | Display    | Input protection |
|--------|--------|------------|------------------|
| AL-501 | 4-20mA | 0-100~1999 | 50mA             |

Accuracy  $\pm 0.1\%$  F.S  $\pm 1$  digit ( $23^{\circ}\text{C} \pm 5^{\circ}\text{C}$ )

## ■Specifications

- Input Circuit :** Single ended  
**Conversion Rate :** 2.5/sec  
**Stability :**  $\pm 1$  digit max.  
**Full Scale Adjust :** 100~1999  
**Zero Adjust :** -200~+200  
**Voltage Drop :** 2.9V (20mA) Typ., 2.4V (4mA) Typ.  
**Display :** LCD 12.7mm Height  
**Operating Temperature :** 0 ~  $50^{\circ}\text{C}$   
**Power Supply :** Signal powered  
**Weight (Unit only) :** Approx. 55g  
**Dielectric Strength :** Between input terminal Lo and earth terminal, DC  $\pm 500\text{V}$   
**Accessory :** Instruction Manual

## ■Connection Diagram

