DIGITAL PANEL METER

A1000



■Features

- Low cost
- Bright LED 14.2mm (red)
- AC power and DC power available

Input Specifications

■DC Voltage, current

· DC voltage measurement (Range 11 to 14)

Range	Measurement Range	Input Impedance	Input Protection	Accuracy (23°C±5°C, 35 to 85%)
11	±199.9mV	100M	±100V	± (0.3% of F.S)
12	±1.999V			
13	±19.99V	1M	±250V	
14	±199.9V		±150V	

· DC current measurement (Range 23 to 25)

Range	Measurement Range	Input Resistance	Input Protection	Accuracy (23°C±5°C, 35 to 85%)
23	±19.99mA	10	±150mA	± 0.5% of F.S
24	±199.9mA	1	±500mA	
25	±1.999A	0.1	±3A	

■AC Voltage, current

· AC voltage measurement (Range 12 to 14 Average)

Range	Measurement Range	Input Impedance	Input Protection	Accuracy (23°C±5°C, 35 to 85%)
12	1.999V	1M	50V	± 0.5% of F.S
13	19.99V		50V	
14	199.9V		500V	

Input Frequency: 40 Hz to 100Hz
Rectifier Circuit : Represents effective value of sine wave by demodulation of mean value
Response time: approx 1 sec (10 to 90%)

· AC current measurement (Range 23 to 26 Average)

Range	Measurement Range	Input Resistance	Input Protection	Accuracy (23°C±5°C, 35 to 85%)
23	19.99mA	10	150mA	± 1.0% of F.S
24	199.9mA	1	500mA	
25	1.999A	0.1	3A	
26	5A	1	8A	

Input Frequency: 40 Hz to 100Hz
Rectifier Circuit : Represents effective value of sine wave by demodulation of mean value
Response time: approx 1 sec (10 to 90%)

■Thermocouple (Range KC, JC)

Range	Sensor Type	Measurement Range	Max Resolution	Accuracy (23°C±5°C, 35 to 85%)
KC	K	0 to +1000℃	1℃	± 0.8% of F.S
JC	J	0 to +400℃	1℃	

Sensor lead Resistance: less than 50
Burn out: Flash -1999
Over input voltage: ±5VDC
Cold Junction Compensator Accuracy:±2° C

■RTD (Pt100) (Range PA, PJ)

Range	Sensor Type	Measurement Range	Max Resolution	Accuracy (23°C±5°C, 35 to 85%)
PA	Pt100	-100.0 to +199.9°C	0.1°C	± 0.2% of F.S
PJ	Pt100	-200 to +600°C	1°C	± 0.4% of F.S

Current for resistance : 1mA (TYP)
External lead resistance: less than 1 ohm per lead

■Process (Range 1V, 2A)

Range	Measurement Range	Display	Input Impedance	Input Protection	Accuracy (23°C±5°C, 35 to 85%)
1V	1 to 5V	offset ±1000	1M	±100V	± 0.3% of F.S
2A	4 to 20mA	fullscale ±100 to 1999	51	50mA	± 0.4% of F.S

■Common Specification

Input bias current: 50 pA (TYP)
Sampling speed: 2.5/sec
Over range indication: When input exceeds the maximum display flash 1999
Max. display: 1999
Display: Red LED 14.2mm height
Dimensions: 96mm (H) X 48mm (W) X 75mm (D) DIN size
Power supply: 90 to 132 VAC
180 to 264 VAC
5 to 24 VDC
Power Consumption: 1.5 VA at AC power
100mA at DC power
Operating Temp.: 0 to 50° C, 35 to 85%RH
Storage Temp.: -10 to 70° C less than 60% RH
Dielectric Strength: Power supply and input, 1500 VAC/1min at AC power
Power supply and input, 500 VDC/1min at DC power
Insulattion Resistance : 500 VDC 100M at above terminals

Conformed EN standard: EN61326-1, EN61010-1(However,14 range is excluded)
EN IEC 63000

DIGITAL PANEL METER

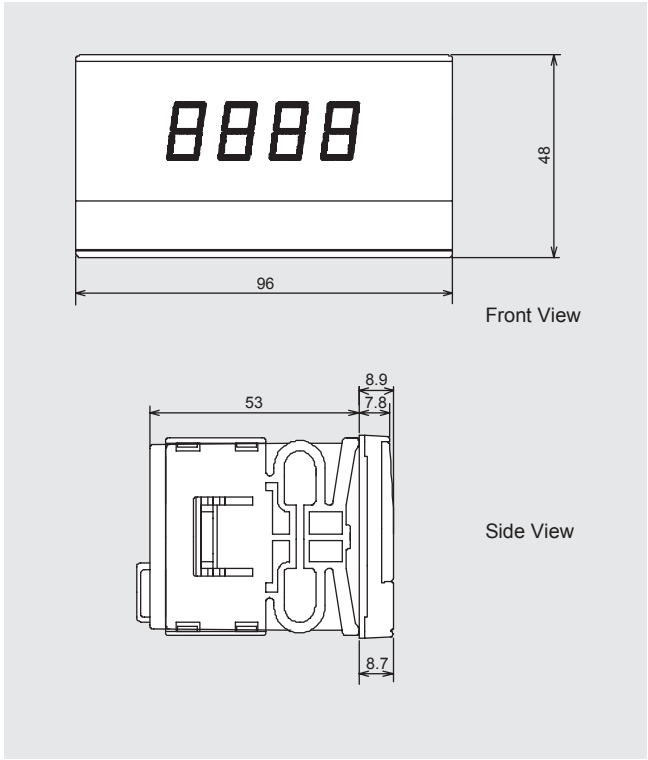
A1000

■Model Code

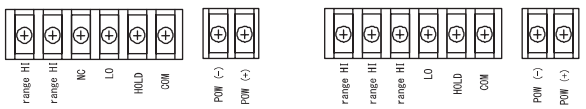
A1□1□-□□

- Range
- Input: 1. DC voltage
  2. DC current
  4. AC voltage
  5. AC current
  6. AC current 5A
  B. Process
  C. Thermocouple
  D. RTD
- Power Supply 1. 90 to 132 VAC
  2. 180 to 264 VAC
  3. 5 to 24 VDC±10%

■Dimensions

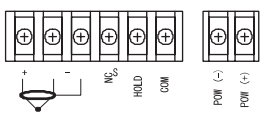


■Connection Diagram

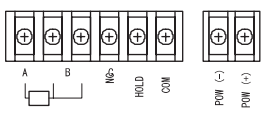


DC voltage (11 to 14 range)
AC voltage (12 to 14 range)

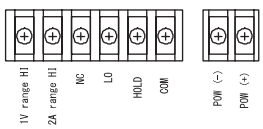
DC current (23 to 25 range)
AC current (23 to 25 range)



Thermocouple (KC, JC)



RTD (PA, PJ)



Process