

DIGITAL PANEL METER

A1000

NEW!



■ Features

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

Input Specifications

■ DC Voltage, current

• DC voltage measurement (Range 12 to 14)

Range	Measurement Range	Input Impedance	Input Protection	Accuracy (23°C±5°C, 35 to 85%)
12	±1.999V	1MΩ	±100V	± 0.3% of F.S
13	±19.99V		±250V	
14	±199.9V		±500V	

• 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	10Ω	±150mA	± 0.5% of F.S
24	±199.9mA	1Ω	±500mA	
25	±1.999A	0.1Ω	±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	1MΩ	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	19.999mA	10Ω	150mA	± 1.0% of F.S
24	199.9mA	1Ω	500mA	
25	1.999A	0.1Ω	3A	
26	5A	1Ω	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°C	1°C	± 0.8% of F.S
JC	J	0 to +400°C	1°C	

Sensor lead Resistance: less than 50Ω

Burn out: Flash -1999

Over input voltage: ±5VDC

Cold Junction Compensator Accuracy:±2°C

■ RTD (Pt100Ω) (Range PA, PJ)

Range	Sensor Type	Measurement Range	Max Resolution	Accuracy (23°C±5°C, 35 to 85%)
PA	Pt100Ω	-100.0 to +199.9°C	0.1°C	± 0.2% of F.S
PJ	Pt100Ω	-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	1MΩ	±100V	± 0.3% of F.S
2A	4 to 20mA	fullscale ±100 to 1999	51Ω	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

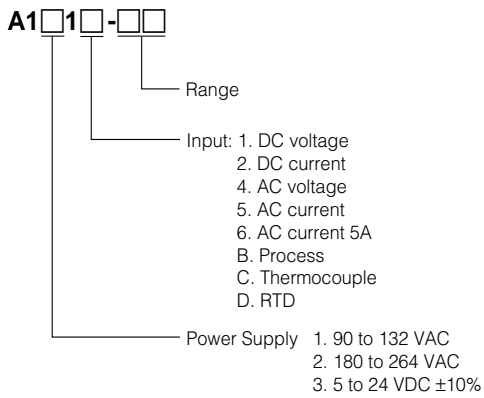
Power supply and input, 500 VDC/1min at DC power

Insulation Resistance : 500 VDC 100MΩ at above terminals

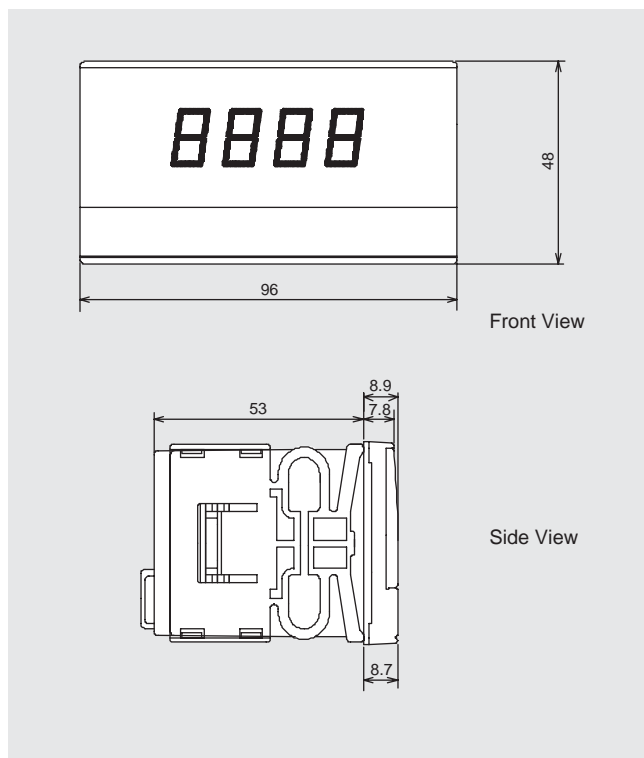
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A1000

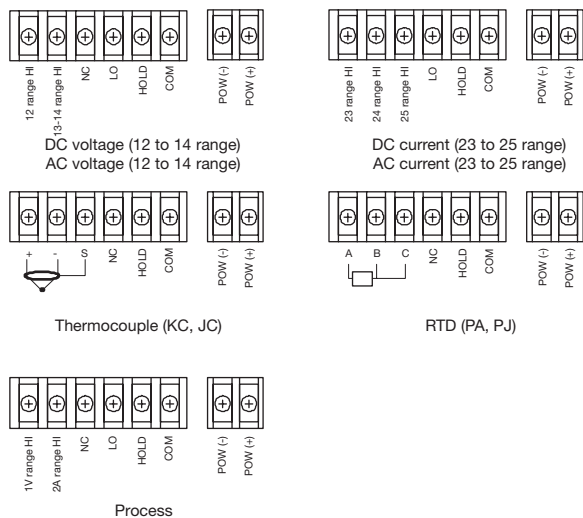
Model Code



Dimensions



Connection Diagram



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A1000

Model Code

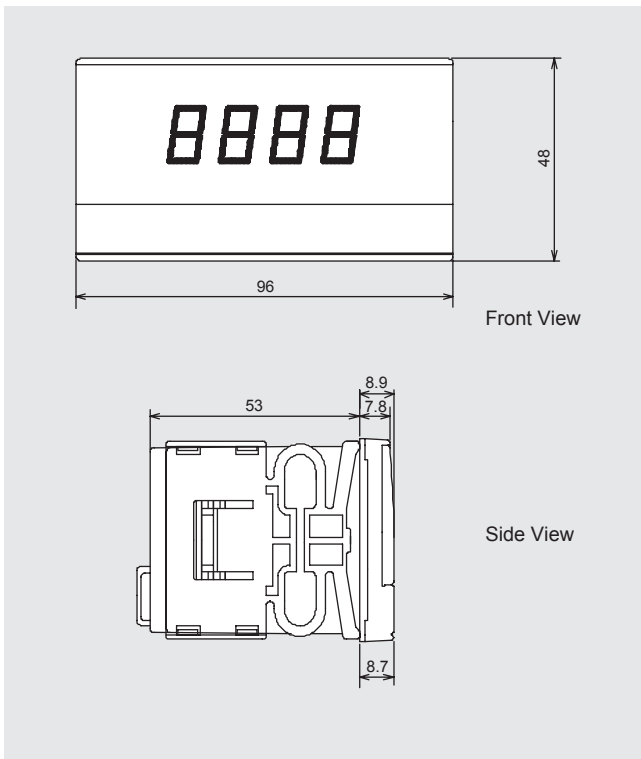
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Range

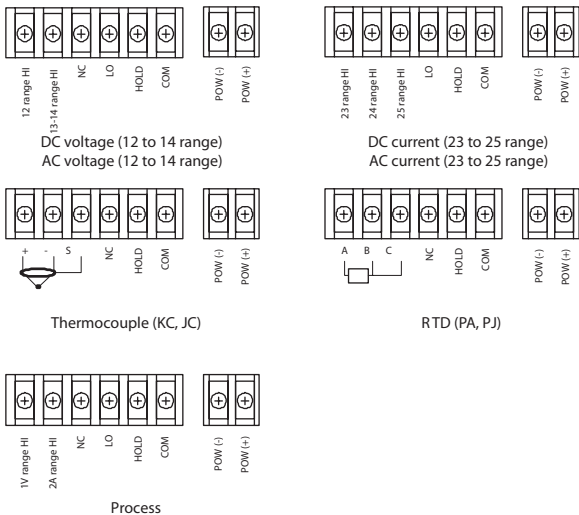
Input: 1. DC voltage
2. DC current
4. AC voltage
5. AC current
6. AC current 5A
B. Process
C. Thermocouple
D. RTD

Power Supply 1. 90 to 132 VAC
2. 180 to 264 VAC
3. 5 to 24 VDC ±10%

Dimensions



Connection Diagram



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