

AC VOLTMETER & AMMETER

AM-164A

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*TRUE-RMS



AC Voltage Measurement

Model	Range	Display Adjustable	Input Impedance	Frequency Range	Input Protection
AM-164A-11	99.99mV	Offset	10MΩ	30Hz~10kHz	10V
AM-164A-12	999.9mV	0~9999	10MΩ	30Hz~10kHz	100V
AM-164A-13	9.999V	Fullscale	10MΩ	30Hz~4kHz	300V
AM-164A-14	99.99V		10MΩ	40Hz~1kHz	700V
AM-164A-15	700.0V	0~9999	10MΩ	40Hz~1kHz	700V

Accuracy: ±0.2% rdg ±10 digit (23°C ±5°C)
±0.3% rdg ±10 digit only for AM-164A-15

AC Current Measurement

Model	Range	Display Adjustable	Internal Resistance	Frequency Range	Input Protection
AM-164A-21	99.99μA	Offset	1kΩ	30Hz~10kHz	10mA
AM-164A-22	999.9μA	0~9999	100Ω	30Hz~10kHz	50mA
AM-164A-23	9.999mA	Fullscale	10Ω	30Hz~4kHz	150mA
AM-164A-24	99.99mA		0~9999	1Ω	30Hz~1kHz

Accuracy: ±0.5% rdg ±10 digit (23°C ±5°C)

AC Current Measurement

Model	Range	Display Adjustable	Internal Resistance	Frequency Range	Input Protection
AM-164A-25	999.9mA	Offset	0.1Ω	30Hz~1kHz	3A
AM-164A-26	5A	Fullscale	0.02Ω	40Hz~1kHz	8A

Accuracy: ±0.7% rdg ±10 digit (23°C ±5°C)

Specifications

Input Configuration: Single Ended impedance approx. 10MΩ
Conversion Rate: 2.5/sec
Response Speed: Approx. 1 sec (10% to 90%)
Crest Factor: 4:1 (At fullscale)
Rectifier Circuit: True r.m.s. value is obtained by AC/DC converter in the analog operation method using transistor V be ∞ (Log characteristic)
Zero Stability: Automatic zero adjustment
Zero Display: Leading zero suppression
Display: LED, 10mm 4 digit
Decimal Point: Settable to any digit position
Overrange Indication: When input exceeds the maximum display, flash just before overflow
Power Supply: AC90~132V, AC180~264V
Operating Temperature: 0~50°C, 35 to 85%RH
Dimensions: 48(H) × 96(W) × 144(D)mm DIN Size
Weight: Approx. 480g
Dielectric Strength: Between input (Lo) and earth (E), COM, DC500V
 Between power supply and input, earth (E), relay output AC1500V/1 min.
 DC500V 100MΩ at above terminals
Insulation Resistance: DC500V 100MΩ at above terminals
Control System: 8-bit microcomputer
Setting Range: 0~9999
Comparative Conditions: Indication > High setpoint → HI
 High setpoint ≥ Indication ≥ Low setpoint → GO
 Indication < Low setpoint → LO
 AC250V 0.1A Resistive load
 AC120V 0.5A Resistive load
 DC28V 1A Resistive load
Relay Contact Capacity:

BCD Data Output (Isolated from input (Lo))

• At Open Collector
Measured data: Negative logic transistor "ON" at logic "1"
"OVER" signal: Transistor "ON" at overflow input
Printing command signal: Transistor "ON" during a period of approx. 1ms at every measurement completion
Transistor output capacity: Applied voltage, 30V max. current, 10mA max. Saturated output voltage less than 1.2V at 10mA (NPN)

• At TTL level
Measured data: Tri-state parallel BCD positive logic latch output
"OVER" signal: "1" level at overflow input
Printing command signal: A positive pulse of approx. 1ms at every measurement completion

Each signal of the above:
 *Each signal of the above can be changed to negative logic

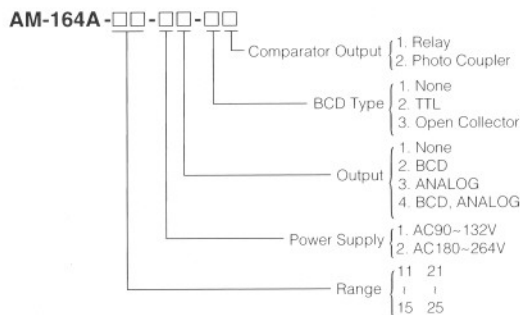
Analog Output:

0~1V
 0.5% F.S. (23°C ±5°C)
 0.1mV/digit
 20kΩ or more(load)

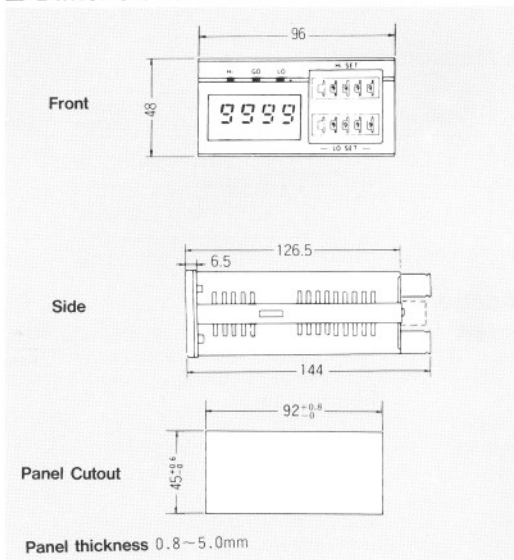
Features

- True RMS
- Bright LED, 10mm (Red)
- Hi and Lo setpoint
- Leading zero suppression
- BCD, Analog output (Option)
- AC 100mV~700.0V, 100μA~5A Measurement

Ordering Code



Dimensions



Connection Diagram

