



AP-166
4 DIGIT, AC PANEL METER

AC Voltage Measurement

Model	Range	Input Impedance	Input Protection
AP-166-12	999.9mV	10M Ω	100V
AP-166-13	9.999V	10M Ω	100V
AP-166-14	99.99V	10M Ω	300V
AP-166-15	700.0V	10M Ω	700V

Accuracy: ±0.3% rdg ± 3 digits (23°C ±5°C)

AC Current Measurement

Model	Range	Internal Resistance	Input Protection
AP-166-22	999.9µA	1K Ω	10mA
AP-166-23	9.999mA	100 Ω	50mA
AP-166-24	99.99mA	10 Ω	200mA
AP-166-25	999.9mA	1 Ω	1A

Accuracy: ±0.5% rdg ± 3 digits (23°C ±5°C)

Specifications

Input Configuration: Single ended impedance approx. 10MΩ 100PF or less

Rectifier Circuit: Represents effective value of sine wave by demodulation of mean value

Conversion Rate: 2.5/sec

Response Speed: Approx. 2.5 sec

Zero Stability: Automatic Zero Adjustment

Display: 4 digit, LED, 14.2mm (.56")

Decimal Point: Settable to any digit position

Overrange Indication: Display flashes

External Control: Hold; HOLD terminal and COM shorted

Power Supply: 90 ~ 132VAC, 180 ~ 264VAC

Operating Temperature: 0 ~ 50°C

Power Consumption: Approx. 2VA

Weight: 270g, 9.5 oz.

Dielectric Strength:

Between input (Lo) terminal and earth 500VDC

Between power supply terminal and input terminal, earth, common, 1500VAC/1 min.

Insulation Resistance: 500VDC 100MΩ at above terminals

Size: 48mm (H) x 96mm (W) x 95mm (D)

1.89" (H) x 3.78" (W) x 3.74" (D)

Accessories: Connector and manual included.

ORDERING GUIDE

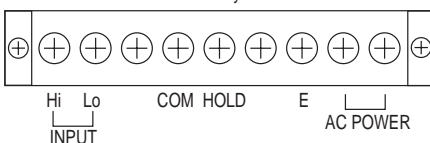


Power	1	90 ~ 132 VAC
	2	180 ~ 264 VAC
	12	± 999.9mV
	13	± 9.999V
	14	± 99.99V
	15	± 999.9V
	22	± 999.9µA
	23	± 9.999mA
	24	± 99.99mA
	25	± 999.9mA

Special Scaling also available

CONNECTION DIAGRAM
(Screw Terminal)

COM and LO terminal is internally connected



AP-160
3 1/2 DIGIT, AC PANEL METER

AC Voltage Measurement

Model	Range	Input Impedance	Input Protection
AP-160-14	199.9V	10M Ω	700V
AP-160-15	600V	10M Ω	700V

Accuracy: 14-Range ±0.2% rdg ± 3 digits (23°C ±5°C)

15-Range ±0.3% rdg ± 3 digits (23°C ±5°C)

Specifications

Input Configuration: Single ended

Rectifier Circuit: Represents effective value by demodulation of mean value

Conversion Rate: 2.5/sec

Response Speed: Approx. 4.5 sec at fullscale

Zero Stability: Automatic Zero Adjustment

Display: 3 1/2 digit, LED, 14.2mm (.56")

Decimal Point: Settable to any digit position

Overrange Indication:

14-Range: 199.9 flashes

15-Range: No overrange indication.

Do not apply more than 700V.

Power Supply: 90 ~ 132VAC, 180 ~ 264VAC

Operating Temperature: 0 ~ 50°C

Power Consumption: Approx. 2.5VA

Weight: 250g, 8.8 oz.

Dielectric Strength:

Between input (Lo) terminal and earth 500VDC

Between power supply terminal and input terminal, earth, common, 1500VAC/1 min.

Insulation Resistance: 500VDC 100MΩ at above terminals

Size: 48mm (H) x 96mm (W) x 95mm (D)

1.89" (H) x 3.78" (W) x 3.74" (D)

Accessories: Connector and manual included.

ORDERING GUIDE

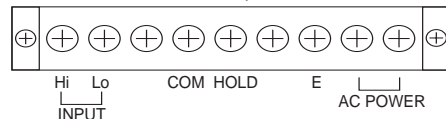


Power	1	90 ~ 132 VAC
	2	180 ~ 264 VAC
	14	199.9VAC
	15	600VAC

Special Scaling also available

CONNECTION DIAGRAM
(Screw Terminal)

COM and LO terminal is internally connected



AM-112
AM-122A
AS-103A
AP-166
AP-160

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