



AP-502
3 1/2 DIGIT, DC PANEL METER

DC Voltage Measurement

Model	Range	Input Impedance	Input Protection
AP-502-11	±199.9mV	100M Ω	±250V
AP-502-12	±1.999V	100M Ω	±250V
AP-502-13	±19.99V	10M Ω	±250V
AP-502-14	±199.9V	10M Ω	±500V

Accuracy: ±0.1% rdg ± 1 digit (23°C ±5°C)

DC Current Measurement

Model	Range	Internal Resistance	Input Protection
AP-502-21	±199.9µA	1K Ω	±10mA
AP-502-22	±1.999mA	100 Ω	±50mA
AP-502-23	±19.99mA	10 Ω	±150mA
AP-502-24	±199.9mA	1 Ω	±500mA
AP-502-25	±1.999A	0.1 Ω	±3A

Accuracy: ±0.2% rdg ± 1 digit (23°C ±5°C)
±0.3% rdg ± 1 digit for AP-502-25 only

Specifications

Input Configuration: Single ended
Input Bias Current: 50PA (Typ.)
Conversion Rate: Approx. 2.5/sec
Normal Mode Rejection: 40dB (Typ.) (50/60Hz)
Zero Stability: Automatic Zero Adjustment
Display: 3 1/2 digit, LED, 14.2mm (.56")
Polarity: A "-" is displayed automatically
Decimal Point: Settable to any digit position
Overrange Indication: Flashes 1999
Power Supply: 5VDC ±5%
Operating Temperature: 0 ~ 50°C
Power Consumption: Approx. 600mW
Weight: 60g, 2.1 oz.
Dielectric Strength: Between input (Lo) terminal and power supply (OV) 500VDC. Between input (Lo) terminal and mounting bracket, 1500VAC/1 min.
Insulation Resistance: 500VDC 100MΩ at above terminals
Size: 48mm (H) x 96mm (W) x 32mm (D)
 1.89" (H) x 3.78" (W) x 1.26" (D)
Accessories: Connector and manual included.

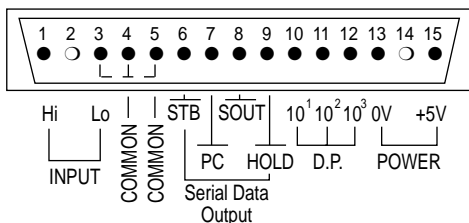
ORDERING GUIDE

AP-502 -

Range Code	Model	Range
11	AP-502-11	± 199.9mV
12	AP-502-12	± 1.999V
13	AP-502-13	± 19.99V
14	AP-502-14	± 199.9V
21	AP-502-21	± 199.9uA
22	AP-502-22	± 1.999mA
23	AP-502-23	± 19.99mA
24	AP-502-24	± 199.9mA
25	AP-502-25	± 1.999A

Special Scaling also available

CONNECTION DIAGRAM
(Solder Connector)



AP-520A
3 1/2 DIGIT, DC PANEL METER, LCD

DC Voltage Measurement

Model	Range	Input Impedance	Input Protection
AP-520A-11	±199.9mV	100M Ω	±100V
AP-520A-12	±1.999V	100M Ω	±100V
AP-520A-13	±19.99V	10M Ω	±250V
AP-520A-14	±199.9V	10M Ω	±500V

Accuracy: ±0.1% rdg ± 1 digit (23°C ±5°C)

Specifications

Input Configuration: Differential (11/12 range)
Single ended (13/14 range)
Input Bias Current: 50PA (Max)
Conversion Rate: 2.5/sec
Normal Mode Rejection: 40dB (Typ.) (50/60Hz)
Zero Stability: Automatic Zero Adjustment
Display: 3 1/2 digit, LCD, 12.7mm (.50")
Polarity: A "-" is displayed automatically
Decimal Point: Settable to any digit position
Overrange Indication: Displays 1 or -1 of the most significant digit
Power Supply: 5VDC ±5%
Operating Temperature: 0 ~ 50°C
Power Consumption: Approx. 15mW
Weight: 60g, 2.1 oz.
Dielectric Strength: Between input terminal (Lo) and mounting bracket, 500VAC
Insulation Resistance: 500VDC 100MΩ at above terminals
Size: 48mm (H) x 96mm (W) x 34.5mm (D)
 1.89" (H) x 3.78" (W) x 1.36" (D)
Accessories: Connector and manual included.

ORDERING GUIDE

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Range Code	Model	Range
11	AP-520A-11	± 199.9mV
12	AP-520A-12	± 1.999V
13	AP-520A-13	± 19.99V
14	AP-520A-14	± 199.9V

CONNECTION DIAGRAM
(Solder Connector)

When using single ended, connect terminal (2) and (3)
(COMMON and OV Terminal is internally connected)

