



AP-202A

3 1/2 DIGIT, DC PANEL METER

DC Voltage Measurement

Model	Range	Input Impedance	Input Protection
AP-202A-11	±199.9mV	100M Ω	±100V
AP-202A-12	±1.999V	100M Ω	±100V
AP-202A-13	±19.99V	10M Ω	±250V
AP-202A-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-202A-21	±199.9μA	1K Ω	±10mA
AP-202A-22	±1.999mA	100 Ω	±50mA
AP-202A-23	±19.99mA	10 Ω	±150mA
AP-202A-24	±199.9mA	1 Ω*	±500mA
AP-202A-25	±1.999A	0.1 Ω*	±3A

Accuracy: ±0.2% rdg ± 1 digit (23°C ±5°C)
±0.3% rdg ± 1 digit only for AP-202A-25

* These resistors are connected to the outside of the unit.

Specifications

Input Configuration: Single Ended
Input Bias Current: 50PA (Typ.)
Conversion Rate: 2.5/sec or 12.5/sec (50Hz), 15/sec (60Hz)
Normal Mode Rejection: 40dB (Typ.) (50/60Hz)
Zero Stability: Automatic Zero Adjustment
Display: 3 1/2 digit, LED, 10.2mm (.40")
Polarity: A "-" is displayed automatically
Decimal Point: Settable to any digit position
Overrange Indication: Flashes 1999
External Control: Hold/Start and decimal points
Power Supply: 5VDC ±5%, 12VDC ±20%, 24VDC±20%
Operating Temperature: 0 ~ 50°C
Power Consumption: 650mW
Weight: 50g, 1.75 oz.
Dielectric Strength: Between input (Lo) terminal and power supply (OV), ±500VDC.
 Between power supply terminal and case, 1500VAC/1 min.
Insulation Resistance: 500VDC 100MΩ at above terminals
Size: 24mm (H) x 48mm (W) x 73mm (D)
 .95" (H) x 1.89" (W) x 2.87" (D)
Accessories: 2 Connectors and manual included.

AP-201A

3 1/2 DIGIT, DC PANEL METER

DC Voltage Measurement

Model	Range	Input Impedance	Input Protection
AP-201A-11	±199.9mV	100M Ω	±10V
AP-201A-12	±1.999V	100M Ω	±100V
AP-201A-13	±19.99V	10M Ω	±250V
AP-201A-14	±199.9V	10M Ω	±500V

Accuracy: ±0.1% rdg + 1 digit (23°C ±5°C)
 Stability Max. 2 digits for AP-201A-11 only

Specifications

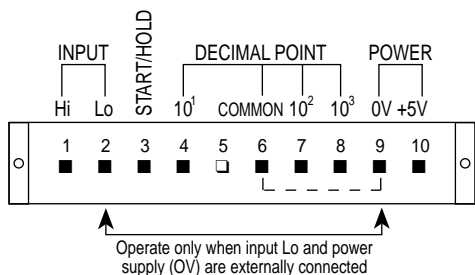
Input Configuration: Single Ended
Input Bias Current: 50PA (Typ.)
Conversion Rate: 2.5/sec
Normal Mode Rejection: 40dB (Typ.) (50/60Hz)
Zero Stability: Automatic Zero Adjustment
Display: 3 1/2 digit, LED, 10.2mm (.40")
Polarity: A "-" is displayed automatically
Decimal Point: Settable to any digit position
Overrange Indication: Flashes 1 or -1 of most significant digit
External Control: Hold/Start and decimal points
Power Supply: 5VDC ±5% 60mA (Typ.)
Operating Temperature: 0 ~ 50°C
Power Consumption: Approx. 300mW
Weight: 40g, 1.4 oz.
Dielectric Strength: Between input (Lo) terminal and mounting bracket, 1500VAC/1 min
Insulation Resistance: 500VDC 100MΩ at above terminals
Size: 24mm (H) x 48mm (W) x 73mm (D)
 .95" (H) x 1.89" (W) x 2.87" (D)
Accessories: Connector and manual included.

ORDERING GUIDE

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Range Code	11	12	13	14
Range	± 199.9mV	± 1.999V	± 19.99V	± 199.9V

CONNECTION DIAGRAM (Solder Connector)



ORDERING GUIDE

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BCD Out	1	2	3
None	1	2	3
TTL	1	2	3
Open Collector	1	2	3

Output	1	2	6	7
None	1	2	6	7
BCD (2.5/sec) (Isolated)	1	2	6	7
BCD (12.5/sec 50Hz) (Isolated)	1	2	6	7
BCD (15/sec 60Hz) (Isolated)	1	2	6	7

Power Supply	3	4	5
5VDC	3	4	5
24VDC	3	4	5
12VDC	3	4	5

Range Code	11	12	13	14	21	22	23	24	25
Range	± 199.9mV	± 1.999V	± 19.99V	± 199.9V	± 199.9μA	± 1.999mA	± 19.99mA	± 199.9mA	± 1.999A

CONNECTION DIAGRAM (Solder Connector)

