



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.

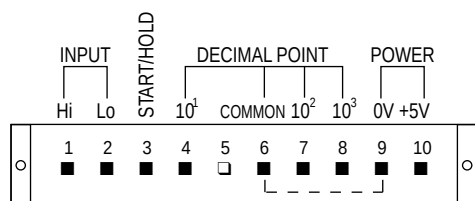
ORDERING GUIDE

AP-201A - ☐ ☐

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

CONNECTION DIAGRAM

(Solder Connector)



Operate only when input Lo and power supply (OV) are externally connected

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.

ORDERING GUIDE

AP-202A - ☐ ☐ ☐ ☐ ☐ ☐

	1	None
BCD Out	2	TTL
	3	Open Collector
	1	None
-Output	2	BCD (2.5/sec) (Isolated)
	6	BCD (12.5/sec 50Hz) (Isolated)
	7	BCD (15/sec 60Hz) (Isolated)
	3	5VDC
Power Supply	4	24VDC
	5	12VDC

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

Special Scaling also available

CONNECTION DIAGRAM

(Solder Connector)

