



AP-141 4 1/2 DIGIT, DC PANEL METER

DC Voltage Measurement

Model	Range	Input Impedance	Input Protection
AP-141-12	±1.9999V	100M Ω	±100V
AP-141-13	±19.999V	1M Ω	±250V
AP-141-14	±199.99V	1M Ω	±500V
AP-141-15	±800V	10M Ω	±900V

Accuracy: ±0.03% rdg ± 1 digit (23°C ±5°C)

Specifications

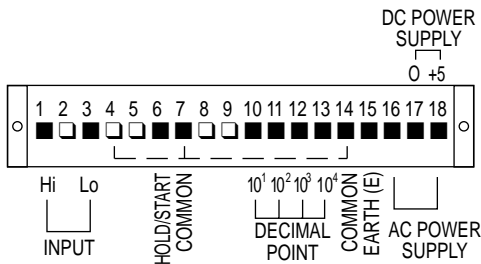
Input Configuration: Single ended
Input Bias Current: 100PA (Typ.)
Conversion Rate: 2.5/sec
Normal Mode Rejection: More than 50dB (50/60Hz)
Zero Stability: Automatic Zero Adjustment
Display: 4 1/2 digit, LED, 14.2mm (.56")
Polarity: A "-" is displayed automatically
Decimal Point: Settable to any digit position
External Control: Hold/Start and decimal points
Overrange Indication: 0000 or -0000 flashes
Power supply: 90 ~ 132VAC, 180 ~ 264VAC
 5VDC ±5%, 24VDC ±20%
Operating Temperature: 0 ~ 50°C
Weight: 160g, 5.6 oz. (AC); 90g, 3.2 oz. (DC)
Dielectric Strength:
AC Type: Between input (Lo) terminal and earth, DC500V
 Between power supply terminal and input terminal, earth, common, case, 1500VAC/1 min.
DC Type: Between input (Lo) and power supply (0V), 500VDC
Insulation Resistance: 500VDC 100MΩ at above terminals
Size: 48mm (H) x 96mm (W) x 73mm (D)
 1.89" (H) x 3.78" (W) x 2.87" (D)
Accessories: Connector and manual included.

ORDERING GUIDE

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Power	1	90 ~ 132 VAC
	2	180 ~ 264 VAC
	3	+5VDC (Isolated)
	4	+24VDC (Isolated)
Range Code	12	± 1.9999V
	13	± 19.999V
	14	± 199.99V
	15	± 800V

CONNECTION DIAGRAM (Solder Connection)



Same level Lo and COM

AP-142 4 1/2 DIGIT, DC PANEL METER

DC Voltage Measurement

Model	Range	Input Impedance	Input Protection
AP-142-11	±199.99mV	100M Ω	±250V
AP-142-12	±1.9999V	100M Ω	±250V
AP-142-13	±19.999V	1M Ω	±250V
AP-142-14	±199.99V	1M Ω	±500V
AP-141-15	±800V	10M Ω	±900V

Accuracy: ±0.03% rdg ± 1 digit (23°C ±5°C)

Specifications

Input Configuration: Single ended
Input Bias Current: 100PA (Typ.)
Conversion Rate: 2.5/sec
Normal Mode Rejection: More than 50dB (50/60Hz)
Zero Stability: Automatic Zero Adjustment
Display: 4 1/2 digit, LED, 14.2mm (.56")
Polarity: A "-" is displayed automatically
Decimal Point: Settable to any digit position
External Control: Hold/Start and decimal points
Overrange Indication: 0000 or -0000 flashes
Power Supply: 90 ~ 132VAC, 180 ~ 264VAC
 5VDC ±5%, 170mA (Max)
Operating Temperature: 0 ~ 50°C
Power Consumption: 2VA
Weight: 190g, 6.65 oz. (AC); 125g, 3.2 oz. (DC)
Dielectric Strength:
AC Type: Between input (Lo) terminal and earth, 500VDC
 Between power supply terminal and input terminal, earth, common, case, 1500VAC/1 min.
DC Type: Between input (Lo) and power supply (0V), 500VDC
Insulation Resistance: 500VDC 100MΩ at above terminals
Size: 1/8 DIN 48mm (H) x 96mm (W) x 73mm (D)
 1.89" (H) x 3.78" (W) x 2.87" (D)
Accessories: 2 Connectors and manual included.

ORDERING GUIDE

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Output	1	Display Only
	2 <td>BCD</td>	BCD
Power	1	90 ~ 132 VAC
	2	180 ~ 264 VAC
	3	+5VDC (Isolated)
Range Code	11	± 199.99mV
	12	± 1.9999V
	13	± 19.999V
	14	± 199.99V
	15	± 800V

Special Scaling also available

CONNECTION DIAGRAM (Solder Connection)

