

TABLE 1-1
SPECIFICATIONS

DC VOLTAGE

RANGE	MAXIMUM READING	ACCURACY ± (% rdg + digits)		TEMPERATURE COEF. ± (% rdg + digits)/°C 0-18°C & 28-50°C	INPUT RESISTANCE	MAXIMUM ALLOWABLE INPUT	SETTLING TIME ¹
		24 Hr 22-24°C	1 Yr 18-28°C				
200mV	199.999	003 + 2d ¹	007 + 3d ¹	0007 + 1.6d	> 1000Mohm	1200V ²	0.5 sec ³
2 V	1.99999	004 + 1.5d	007 + 2d	0007 + 0.2d	> 1000Mohm	1200V ²	0.5 sec
20 V	19.9999	004 + 1.5d	010 + 2d	0008 + 0.2d	10Mohm	1200V ²	0.5 sec
200 V	199.999	004 + 1.5d	010 + 2d	0008 + 0.2d	10Mohm	1200V ²	0.5 sec
1200 V	1200.00	005 + 1.5d	010 + 2d	0012 + 0.2d	10Mohm	1200V ²	0.5 sec

NMRR: > 60dB at 50 & 60 Hz.

CMRR: > 120dB at DC, 50 & 60 Hz (with 1kohm in either lead).

¹With zero set by Null function²1 minute max., 700 volts continuous³To within 5 digits of final reading⁴1.6 sec³ for input changes < 15 millivolts

RESISTANCE

RANGE	MAXIMUM READING	ACCURACY ± (% rdg + digits)		TEMPERATURE COEF. ± (% rdg + digits)/°C 0-18°C & 28-50°C	MAXIMUM OUTPUTS I short V open	SETTLING TIME ¹	4-TERMINAL LEAD RESISTANCE ²
		24 Hr 22-24°C	1 Yr 18-28°C				
200 ohm	199.999	006 + 2d ¹	012 + 3d ¹	0015 + 2d	4mA 100mV	1 sec ³	1ohm
2kohm	1.99999	006 + 1.5d	012 + 2d	0015 + 0.2d	4mA 4 V	1 sec	22ohm
20kohm	19.9999	006 + 1.5d	012 + 2d	0015 + 0.2d	400µA 4 V	1 sec	10ohm
200kohm	199.999	006 + 1.5d	012 + 2d	0015 + 0.2d	40 µA 4 V	1 sec	22ohm
2000kohm	1999.99	01 + 1.5d	03 + 2d	002 + 0.2d	4 µA 4 V	1 sec	100ohm
20Mohm	19.9999	04 + 1.5d	08 + 2d	006 + 0.2d	1 µA 4 V	2 sec	220ohm

CONFIGURATION: 4 terminal or 2-terminal.

MAXIMUM ALLOWABLE INPUT: 360V peak, 250V rms.

¹With zero set by Null function²To within 5 digits of final reading³3 sec³ for input changes < 15 milliohms.⁴Maximum resistance per lead for additional 1 digit error

AC VOLTAGE (Option 1910)

RANGE	MAXIMUM READING	ACCURACY ± (% rdg + digits) (Above 1000 Counts) ¹ 1 Year 18-28°C		TEMPERATURE COEFFICIENT ± (% rdg + digits)/°C 0-18°C & 28-50°C	
		50Hz-20kHz	20-50Hz & 20k-100kHz	50Hz-20kHz	20-50Hz & 20k-100kHz
2V	1.99999	0.10 + 10d	1.0 + 20d	0.015 + 0.5d	0.05 + 0.5d
20V	19.9999	0.10 + 10d	1.0 + 20d	0.015 + 0.5d	0.05 + 0.5d
200V	199.999	0.10 + 10d	1.0 + 20d	0.015 + 0.5d	0.05 + 0.5d
1000V	1000.00	0.15 + 10d ²	1.0 + 20d ²	0.020 + 0.5d	0.05 + 0.5d

RESPONSE: Average, calibrated in rms of a sine wave.

MAXIMUM ALLOWABLE INPUT: 1000V rms sine or DC, 2 x 10⁵V • Hz.

SETTLING TIME: < 1.3 seconds to within 0.05% of final reading for zero to full-scale step input.

CMRR: > 60dB at DC, 50 & 60 Hz. (1kohm in either lead)

INPUT IMPEDANCE: 2Mohm shunted by less than 50pF

¹With input shorted, display reads approximately 20 digits²50Hz-10kHz.³20Hz-50Hz & 10kHz-20kHz

GENERAL

NULL: Pushbutton allows zeroing of on scale readings. Front panel annunciator indicates null mode.

DISPLAY: Six 0.5 inch LED digits with appropriate decimal point.

CONVERSION SPEED: 4 readings/second on DC volts.

3 readings/second on ohms.

2 readings/second on AC volts.

POLARITY: Automatic, minus indicated, plus implied.

RANGING: Manual.

OVERLOAD INDICATION: Display indicates polarity and overrange digit only.

INVALID RANGE/FUNCTION SELECTION: Display reads -1EEEE.

ISOLATION: Input I/O to power line ground, greater than 1000 megohms shunted by approximately 300 picofarads. Maximum input between I/O and power line ground, 1400 volts peak, 5 x 10⁵V • Hz.

WARMUP: 1 hour to rated accuracy.

ENVIRONMENTAL LIMITS:

Operating: 0°C to 50°C, 0% to 80% relative humidity up to 35°C.

Storage: -25°C to 65°C.

POWER: 105-125 or 210-250V (internal switch selected), 90-110V available; 50-60Hz, 25V•A maximum.

INPUT CONNECTORS: 5-way binding posts

DIMENSIONS, WEIGHT: 85mm high x 235mm wide x 275mm deep (3 1/4 in. x 9 1/4 in. x 10 3/4 in.) Net weight 2.3kg (5 lbs.)

ACCESSORIES SUPPLIED: Instruction Manual.

AVAILABLE ACCESSORIES:

Model 1010 Single Rack Mounting Kit

Model 1017 Dual Rack Mounting Kit

Model 1600 High Voltage Probe

Model 1641 Kelvin Test Lead Set

Model 1651 50 Ampere Shunt

Model 1681 Clip-On Test Lead Set

Model 1682 RF Probe

Model 1683 Universal Test Lead Set

Model 1684 Carrying Case

Model 1685 Clamp-On Current Probe

Model 1901 Current Adapter

Model 1910 AC Volts Option

Model 1913 Calibration Cover