SPECIFICATIONS

DC VOLTAGE

RANGE	MAXIMUM READING	ACCURACY (12 months) 18°-28°C ±(% rdg + digits)	MAXIMUM ALLOWABLE INPUT
200mV	199.99	0.04% + 3d	1200V momentary
2 V	1.9999	0.04% + 1d	1200V momentary
20 V	19.999	0.04% + 1d	1200V
200 V	199.99	0.04% + 1d	1200V
1200 V	1200.0	0.04% + 1d	1200V

Temperature Coefficient (0°-18° and 28°-55°C): ±(0.006% + 0.2 digit)/°C except ±(0.006% + 0.4 digit)/°C on the 200mV range.
Input Resistance: 10MΩ ±0.1%

Normal Mode Rejection Ratio: Greater than 60dB at 50Hz and 60Hz.
Common Mode Rejection Ratio (1kΩ unbalance): Greater than 120dB at DC, 50Hz and 60Hz.
Settling Time: 1 second to within 1 digit of final reading.

AC VOLTAGE

RANGE	MAXIMUM READING	ACCURACY (12 months) (above 2000 counts) 18°-28°C: 100Hz-10kHz ±(% rdg + digits)	TEMPERATURE COEFFICIENT 0°-18° and 28°-55°C ±(% rdg + digits)/°C 45Hz-10kHz	10kHz-20kHz
200mV	199.99	0.7% + 15d	0.07% + 2d	0.15% + 3d
2 V	1.9999	0.6% + 15d	0.07% + 2d	0.15% + 3d
20 V	19.999	0.5% + 15d	0.05% + 2d	0.05% + 2d
200 V	199.99	0.5% + 15d	0.05% + 2d	0.05% + 2d
1000 V	1000.0	0.5% + 15d	0.05% + 2d	0.05% + 2d

Extended Frequency Accuracy:
-(45Hz-100Hz) ±(0.7% + 15 digits)
(10kHz-20kHz) ±(0.8% + 15 digits) on the 20V and higher ranges, ±(1.5% + 15 digits) on the 2V range, ±(2% + 15 digits) on the 200mV range.
Response: True root mean square.
Crest Factor: 3.

Input Impedance: 1MΩ ±1% shunted by less than 75pF.
Maximum Allowable Input Voltage: 1000V rms, 1400V peak, 10^7V•Hz maximum.
Common Mode Rejection Ratio (1kΩ unbalance): 60dB at DC, 50Hz and 60Hz.
Settling Time: 2.5 seconds to within 10 digits of final reading.

DC AND TRMS AC CURRENT

RANGE	MAXIMUM READING	ACCURACY (12 months) 18°-28°C +(% rdg + digits) DC	AC 45Hz-10kHz (above 2000 counts)	MAXIMUM VOLTAGE BURDEN	SHUNT RESISTANCE
200μA	199.99	0.2% + 2d	1% + 15d	0.2 V	1kΩ
2mA	1.9999	0.2% + 2d	1% + 15d	0.2 V	100 Ω
20mA	19.999	0.2% + 2d	1% + 15d	0.2 V	10 Ω
200mA	199.99	0.2% + 2d	1% + 15d	0.25V	1 Ω
2000mA	1999.9	0.2% + 2d	1% + 15d	0.6 V	0.1 Ω
20 A**	19.999	0.5% + 2d	1% + 15d* (1kHz max)	0.65V	0.01 Ω

*Add 0.1% rdg above 15A for self-heating.
**20A range on Model 179-20A only.

MAXIMUM INPUT: 2A, 250V DC or rms (fuse protected) except for 20A range.
15A continuous, 20A for 1 minute (50% duty cycle), 250V dc or rms (fuse protected) on 20A range.

Temperature Coefficient (0°-18° and 28°-55°C):
DC ± (0.01% + 0.2 digits)/°C.
AC ± (0.07% + 2 digits)/°C.
Crest Factor: 3
Settling Time: DC: 1 second to within 1 digit of final reading.
AC: 2.5 seconds to within 10 digits of final reading.

RESISTANCE

RANGE	MAXIMUM READING	ACCURACY (12 months) 18°-28°C ±(% rdg + digits) HI Ω	LO Ω	MAXIMUM VOLTAGE ACROSS UNKNOWN ON RANGE HI Ω	LO Ω	TEMPERATURE COEFFICIENT 0°-18° and 28°-55°C ±(% rdg + digits)/°C HI Ω	LO Ω	NOMINAL APPLIED CURRENT HI Ω	LO Ω
2kΩ	1.9999	–	0.15% + 15d	–	0.2V	–	0.02% + 2d	–	100μA
20kΩ	19.999	0.04% + 1d	0.15% + 15d	2V	0.2V	0.003% + 0.2d	0.02% + 2d	100μA	10μA
200kΩ	199.99	0.04% + 1d	0.15% + 15d	2V	0.2V	0.003% + 0.2d	0.02% + 2d	10μA	1μA
2000kΩ	1999.9	0.04% + 1d	0.15% + 15d	2V	0.2V	0.003% + 0.2d	0.03% + 2d	1μA	0.1μA
20MΩ	19.999	0.10% + 1d	–	2V	–	0.02 % + 0.2d	–	0.1μA	–

Maximum Allowable Input: 450V rms sustained, 1kV DC or peak AC momentary.
Maximum Open-Circuit Voltage: 5 volts.

Settling Time: 1 second to within 1 digit of final reading except 2 seconds on the 20MΩ range.

GENERAL

DISPLAY: Five 0.5" LED digits, appropriate decimal position and polarity indication.
CONVERSION PERIOD: 400 milliseconds.
ENVIRONMENT:
Operating: 0°C to 55°C.
0% to 80% relative humidity up to 40°C.
Storage: -25°C to +65°C.

POWER: 105-125 or 210-250 volts (switch selected), 90-110V available. 50-60Hz, 7 watts. Optional 6 hour battery pack, Model 1788.
DIMENSIONS, WEIGHT: 85mm high x 235mm wide x 275mm deep (3-1/2 in. x 9-1/4 in. x 10-3/4 in.).
Net weight: 1.7kg. (3 lbs., 13 oz).
OVERRANGE INDICATION: Display blinks all zeros above 19999 counts.
MAXIMUM COMMON MODE VOLTAGE: 1400V peak.