Specifications

DC VOLTAGE

RANGE	MAXIMUM READING	ACCURACY (12 mo.) 18°–28°C ±(% rdg + digits)	MAXIMUM ALLOWABLE INPUT
20mV*	19.999	0.04% + 2d	1200V momentary**
200V*	199.99	0.04% + 1d	1200V momentary**
2V	1.9999	0.03% + 1d	1200V momentary**
20V	19.999	0.03% + 1d	1200V
200V	199.99	0.03% + 1d	1200V
1200V	1200.0	0.035% + 1d	1200V

*Front panel zero

**Momentary = 8/seconds/minute at 1200V, 450V continuous.

TEMPERATURE COEFFICIENT (0°–18°C and 28°–55°C): ±(0.005% + 0.1 digit)/°C except ±(0.005% + 0.6 digit)/°C on the 20mV range

INPUT RESISTANCE: 10MΩ ± 0.5%

NMRR: Greater than 80dB on the 20mV range at 50Hz and 60Hz; greater than 60dB on all other range

CMRR (1kΩ unbalance): Greater than 120dB at DC, 50Hz & 60Hz

AC VOLTAGE

RANGE	MAXIMUM READING	ACCURACY (12 mo.) (above 2000 counts) 18°-28°C; 100Hz-10kHz ±(% rdg + digits)
200mV	199.99	0.5% + 15d
2V	1.9999	0.5% + 15d
20V	19.999	0.5% + 15d
200V	199.99	0.5% + 15d
1000V	1000.0	0.5% + 15d

EXTENDED FREQUENCY ACCURACY (45Hz–20kHz): ±(0.7% + 15 digits)

TEMPERATURE COEFFICIENT (0°–18°C & 28°–55°C; 45Hz–20kHz): ±(0.05% + 2 digits)/°C

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, 10^7•Hz maximum

CMRR (1kΩ unbalance): 60dB at DC, 50Hz and 60Hz

RESISTANCE

RANGE	MAXIMUM READING	ACCURACY (12 mo.) 18°–28°C ±(% rdg + digits)	TEMPERATURE COEFFICIENT 0°-18°C & 28°-55°C ±(% rdg + digits)/°C	NOMINAL APPLIED CURRENT
20Ω*	19.999	0.05% + 3d	0.004% + 0.6d	1mA
200Ω*	199.99	0.05% + 2d	0.004% + 0.2d	1mA
2kΩ	1.9999	0.04% + 1d	0.004% + 0.2d	1mA
20kΩ	19.999	0.04% + 1d	0.004% + 0.2d	100μA
200kΩ	199.99	0.04% + 1d	0.004% + 0.2d	10μA
2000kΩ	1999.9	0.04% + 1d	0.005% + 0.2d	1μA
20MΩ	19.999	0.10% + 1d	0.02% + 0.2d	0.1μA

*Front panel zero

MAXIMUM ALLOWABLE INPUT: 350V peak

OPEN-CIRCUIT VOLTAGE: 5 volts

DC & TRMS AC CURRENT

RANGE	MAXIMUM READING	ACCURACY (12 mo.) 18°–28°C ±(% rdg + digits) DC*	AC 45Hz–10kHz (above 2000 counts)	MAXIMUM VOLTAGE BURDEN
20μA	19.999	0.2% + 2d	—	0.02V
200μA	199.99	0.2% + 1d	0.8% + 15d	0.2V
2mA	1.9999	0.2% + 1d	0.8% + 15d	0.2V
20mA	19.999	0.2% + 1d	0.8% + 15d	0.2V
200mA	199.99	0.2% + 1d	0.8% + 15d	0.25V
2000mA	1999.9	0.2% + 1d	0.8% + 15d	0.6V

*Front panel zero

MAXIMUM INPUT: 2A, 250V DC or rms (fuse protected)

TEMPERATURE COEFFICIENT (0°–18°C and 28°–55°C):

DC: ±(0.2 digits)/°C except ±(0.01% + 0.6 digits)/°C on 20μA range.

AC: ±(0.07% + 2 digits)/°C

CREST FACTOR: 3

GENERAL

DISPLAY: Five 0.5" LED digits, appropriate decimal point and polarity indication

CONVERSION PERIOD: 400mS

OVERRANGE INDICATION: Display blinks all zeros above 19999 counts

MAXIMUM COMMON MODE VOLTAGE: 1400V peak

ANALOG OUTPUT: Output Voltage: 1V = 10,000 counts
Output Resistance: 5000Ω

ENVIRONMENT: Operating: 0°C to 55°c; 0% to 80% relative humidity up to 40°C.
Storage: −25°C to +65°C

CONNECTORS: Input: Binding posts
Output: Banana jacks

POWER: 105–125 or 210–250 volts (switch selected), 90–110V available. 50–60Hz, 8 watts. Optional 6 hour battery pack, Model 1788

DIMENSIONS WEIGHT: 85mm high × 235mm wide × 275mm deep (3½" × 9¼" × 10¾"). Net weight: 1.7kg (4 lb)

ACCESSORIES AVAILABLE:

Model 1010:	Single Rack Mounting Kit
Model 1017:	Dual Rack Mounting Kit
Model 1301:	Temperature Probe
Model 1600A:	High Voltage Probe (40kV)
Model 1641:	Kelvin Test Leads
Model 1651:	50-Ampere Current Shunt
Model 1681:	Clip-On Test Lead Set
Model 1682A:	RF Probe
Model 1683:	Universal Test Lead Kit
Model 1684:	Hard Shell Carrying Case
Model 1685:	Clamp-On AC Probe
Model 1691:	General Purpose Test Lead Set
Model 1779:	Spare Parts Kit
Model 1788:	Rechargeable Battery Pack
Model 1792:	Isolated BCD Output
Model 1793:	Isolated IEEE-488 Output

Specifications subject to change without notice.