

# SPECIFICATIONS

RANGE	RESOLUTION	ACCURACY (1 YEAR)	ANALOG RISE TIME (10 -90%)	NORMAL MODE	MAXIMUM CONTINUOUS INPUT‡
		18°-28°C ± (%rdg + counts)†		REJECTION RATIO (50 or 60Hz)	
2 nA	0.1 pA	0.4 + 4	60ms	70dB	350Vdc
20 nA	1 pA	0.4 + 1	60ms	70dB	350Vdc
200 nA	10 pA	0.2 + 1	6ms	65dB	350Vdc
2 µA	100 pA	0.15 + 1	3ms	65dB	350Vdc
20 µA	1 nA	0.1 + 1	3ms	65dB	50Vdc
200 µA	10 nA	0.1 + 1	1ms	65dB	50Vdc
2mA	100 nA	0.1 + 1	1ms	55dB	50Vdc

† When properly zeroed.

‡ With no limiting resistance: 1000Vdc with external 100kΩ series resistance.

**INPUT VOLTAGE BURDEN:** Less than 200µV.

**RANGING:** Manual or autoranging.

**AUTORANGING TIME:** Average 250ms per range.

**SETTLING TIME AT DISPLAY:** Less than 1 second to within 2 counts on fixed range.

**CONVERSION PERIOD:** 300ms.

**TEMPERATURE COEFFICIENT (0°-18°C & 28°-50°C):** ±(0.1 × applicable accuracy specification) per °C.

**MAXIMUM COMMON MODE VOLTAGE:** 30V rms, DC to 60Hz sine wave.

**ANALOG OUTPUT:**

**Output Voltage:** +1V = -10000 counts, except +100mV = -10000 counts on 2nA range.

**Output Resistance:** 1000Ω.

**REL:** Pushbutton allows zeroing of on range readings. Allows relative readings to be made with respect to baseline value. Front panel annunciator indicates REL mode.

**DATA STORE and MIN/MAX:** 100 reading storage capacity; records data at one of six selectable rates from 3 readings/second to 1 reading/hour, or by manual triggering. Also detects and stores maximum and minimum readings continuously while in the data store mode.

**LOG:** Displays logarithm (base 10) of the absolute value of the measured current (examples: -3.000 = ±1mA; -6.301 = ±0.5µA).

**IEEE-488 BUS IMPLEMENTATION (Option 4853)**

**MULTILINE COMMANDS:** DCL, SDC, GET, GTL, UNT, UNL, SPE, SPD.

**UNILINE COMMANDS:** IFC, REN EOI, SRQ, ATN.

**INTERFACE FUNCTIONS:** SH1, AH1, T5, TE0, L4, LE0, SR1, RL2, PP0, DC1, DT1, C0, E1.

**PROGRAMMABLE PARAMETERS:** Zero Check, Range, REL, LOG, Trigger, Calibration, EOI, SRQ, Status, Output Format, Terminator.

## GENERAL

**DISPLAY:** 4½ digit LCD, 0.5" height; polarity, range and status indication.

**OVERRANGE INDICATION:** "OL" displayed.

**CONNECTORS:**

**Input:** BNC.

**Analog Output:** Banana Jacks.

**OPERATING ENVIRONMENT:** 0-50°C, less than 70% R.H. up to 35°C; linearly derate 3% R.H./°C up to 50°C.

**STORAGE ENVIRONMENT:** -25° to +60°C

**POWER:** 105-125V or 210-250V (switch selected), 90-110V available, 50-60Hz, 12 VA.

**DIMENSIONS, WEIGHT:** 85mm high × 235mm wide × 275mm deep. (3½" × 9¼" × 10¾").

**Net Weight:** 1.8kg (4 lbs.)

## ACCESSORIES AVAILABLE:

Model 1010:	Single Rack Mounting Kit
Model 1017:	Dual Rack Mounting Kit
Model 1684:	Hard Shell Carrying Case
Model 1758:	Rechargeable Battery Pack
Model 4801:	Low Noise Input Cable (4ft.), BNC to BNC
Model 4803:	Low Noise Cable Kit
Model 4853:	IEEE-488 Interface
Model 7008-3:	IEEE-488 Digital Cable (3ft.)
Model 7008-6:	IEEE-488 Digital Cable (6 ft.)
Model 8573:	IEEE-488 Interface for IBM PC