SPECIFICATIONS

DC VOLTS				ACCURACY ** (% rdg + counts)	
RANGE	RESO- LUTION	INPUT RESISTANCE	24 Hr.,* 22°-24°C	1 Yr., 18°-28°C	
200mV	1 μV	>1GΩ	0.007 + 2	0.016+3	
2 V	10 μV	$> 1G\Omega$	0.005 ± 2	0.011 + 2	
20 V	100 μV	$11M\Omega$	0.006 + 2	0.015 + 2	
200 V	ImV	$10M\Omega$	0.006 ± 2	0.015 + 2	
1000 V	10mV	$10M\Omega$	0.007 + 2	0.015 + 2	

*Relative to calibration accuracy. **When properly zeroed.

NMRR: Greater than 60dB at 50Hz, 60Hz $\pm 0.1\%$.

MAXIMUM ALLOWABLE INPUT: 1000V dc or peak ac (less than 10 seconds per minute on the 200mV and 2V ranges; 300V rms continuous).

SETTLING TIME: I second to within 3 counts of final reading on range

dB MODE (ref: 6000): Accuracy: $\pm (0.02 dB + 1 \text{ count})$ above -78 dBm. Resolution: 0.01dB above 0.5% of range.

TRMS AC VOLTS
ACCURACY (1 Yr.) 18°-28°C +(%rdg+counts)

	RANGE	20Hz - 50Hz*	50Hz - 10kHz*	IUkHz - 20kHz*	20kHz - 50kHz**	50kHz - 100kHz**
	200mV	1.00 + 100	0.35 + 100	0.6 + 200	1.5 + 250	5 + 400
	2V - 200V	1.00 + 100	0.35 + 100	0.6 + 200	1.5 + 250	3 + 400
	750V	1.25 + 100	0.75 + 100	1.0 + 200	1.8 ± 250	3 + 400

*Above 1800 counts. **Above 18000 counts.

MAXIMUM ALLOWABLE INPUT: 750V rms, 1000V peak (less than 10 seconds per minute on 200mV and 2V ranges; 300V rms continuous). 10⁺V◆Hz maximum. 3dB BANDWIDTH: 300kHz typical.

INPUT IMPEDANCE: $1M\Omega$ paralleled by less than 75pF on 200V and 750V ranges. $1.1M\Omega$ paralleled by 75pF on 200mV, 2V and 20V ranges. Capacitively coupled.

SETTLING TIME: 1 second to within 0.1% of final reading on range.

dB MODE (ref: 600Ω):		$ACCURACY (\pm dBm)$			
RANGE	INPUT	20Hz - 10kHz	10kHz - 20kHz	20kHz - 50kHz	50kHz - 100kHz
2V - 750V	200mV to 750 V (-12 to 59.8dBm)	0.18	0.18	0.28	0.50
200mV	20mV to 200mV (-32 to -12dBm)	0.18	0.18	0.28	0.65
	2mV to 20mV (-52 to -32dBm)	0.85	1.10	2.00	
	1mV to 2mV	2.00	3.00	-	_

RESOLUTION: 0.01dB above 0.5% of range.

DC AMPS RANGE	RESOLUTION	MAXIMUM VOLTAGE BURDEN	ACCURACY (1 Yr.) 18°-28°C ±(%rdg+counts)
200 μΑ	1nA	0.3V	0.1 + 15**
2mA	10nA	0.3V	0.1 +15
20mA	100nA	0.3V	0.1 +15
200mA	1 μΑ	0.3V	0.2 + 15
2000mA	10 μΑ	0.8V	0.2 +15
10 A	100 μA	0.3V	0.75 + 15*

^{*}Above 5A derate 0.15% rdg per amp for self-heating.

OVERLOAD PROTECTION: mA Input: 2A fuse (250V), externally accessible. 10A Input: 20A for 15s, unfused.

SETTLING TIME: 1 second to within 3 counts of final reading.

TRMS AC AMPS MAXIMUM VOLTAGE		ACCURACY (1 Y)* 18°-28°C ±(%rdg+counts)			
	RANGE	BURDEN	20Hz - 50Hz	50Hz - 10kHz	10kHz - 30kHz
	200μA - 20mA	0.3V	1.0 + 100	0.8 + 100	2 + 250
	200mA	0.3V	1.0 + 100	0.8 ± 100	
	2000mA	0.8V	1.0 + 100	0.8 ± 100	nome
	10 A	0.3V	1.5 + 100**	1.0+100**	

^{*}Above 1800 counts, **1kHz max, Above 5A derate 0.15% rdg/amp for self-heating. SETTLING TIME: I second to within 0.1% of final reading.

Specifications subject to change without notice.

OHM5		OUTPUT		ACCURACY	
			MAX V	± (%rdg + counts)	
RANGE	RESO- LUTION	NOMINAL I-SHORT	ACROSS UNKNOWN	24 Hr., 22°-24°C	1 Yr., 18°-28°C
200 Ω	1mΩ	2mA	0.5V	0.01 +2*	0.02 +3*
2 kΩ-→	$10 \mathrm{m}\Omega$	2mA	4.0 V	0.01 + 2	0.018 + 2
20 kΩ	$100 \mathrm{m}\Omega$	400 μA	4.0V	0.014 + 2	0.026 + 2
200 kΩ →	1 Ω	40 μA	4.0V	0.014 + 2	0.026 + 2
2MΩ**	10 Ω	4 μΑ	4.0V	0.02 + 2	0.035 + 2
20MΩ**	100 Ω	400 nA	4.0V	0.10 + 2	0.12 + 2
200MΩ**	10 kΩ	400 nA	5.0V	2.00 + 1	2.00 + 1

*When properly zeroed. **Appropriate range selected automatically in M\Omega.

CONFIGURATION: Automatic 2- or 4-terminal.

MAXIMUM ALLOWABLE INPUT: 450V dc or peak ac 10 seconds per minute. 350V rms continuous.

OPEN-CIRCUIT VOLTAGE: +5V.

DIODE TEST: Display reads junction voltage up to 2.2V. Test Current: 1.6mA

SETTLING TIME: 2 seconds to within 3 counts of final reading on range

GENERAL

DISPLAY: ±220,000 count LCD, 0.45 in. height; polarity, function, range, and status

RANGING: Auto or manual on dc volts, ac volts, and ohms: manual on ac amps and

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

DATA LOGGER 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 data logger mode.

CONVERSION RATE: 3 readings/second.

OVERRANGE INDICATION: "OL" displayed.

CREST FACTOR (ratio of peak value to rms value), AC FUNCTIONS: 3.

MAXIMUM COMMON MODE VOLTAGE: 500V peak.

COMMON MODE REJECTION RATIO (1k\Omega unbalance): Greater than 120dB at dc, 50Hz, 60Hz ±0.1%. Greater than 60dB in ac volts.

TEMPERATURE COEFFICIENT (0°-18°C & 28°-50°C): ±(0.1×applicable one year

ENVIRONMENT: Operating: 0°-50°C; less than 80% relative humidity up to 35°C; linearily derate 3% RH/°C, 35°-50°C. Storage: -25° to 60°C.

WARMUP: 1 hour to rated accuracy.

POWER: 105-125V or 210-250V (external switch selected), 90-110V available; 50-60Hz, 12V◆A. Optional 5-hour battery pack, Model 1978.

DIMENSIONS, WEIGHT: 89mm high \times 235mm wide \times 275mm deep (3 1 z in. \times 9 1 4 in. \times 10 3 4 in.). Net weight 1.8kg (3 lbs., 14 oz.).

ACCESSORIES SUPPLIED: Model 1751 safety test leads, instruction manual.

ACCESSORIES AVAILABLE: Model 1010: Model 1017:

Single Rack Mounting Kit Dual Rack Mounting Kit Model 1301: Temperature Probe Model 1600A: High Voltage Probe Model 1641: Model 1651: Kelvin Test Lead Set 50-Ampere Current Shunt Model 1681: Clip-On Test Lead Set Model 1682A: RF Probe Hard Shell Carrying Case Model 1684: Model 1685: Clamp-On Ac Probe Clamp On A Cristos Safety Test Lead S Universal Test Lead Kit IEEE-488 with Analog Output IEEE-488 Interface Model 1751: Model 1754: Model 1972: Model 1973: Model 1973: Rechargeable Battery Pack Model 7008-3: IEEE-488 Digital Cable (6 ft) Model 7008-5: IEEE-488 Interface for IBM PC

(use with 1972/3)

^{**}When properly zerend