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SPECIFICATIONS

PART NUMBER

SPEC-175-AV

DC VOLTS		ACCURACY (1 Year) 18°-28°C	
RANGE	RESOLUTION	±(%rdg + counts)	
200mV	10 μV	0.03 + 3	
2 V	100 μV	0.03 + 2	
20 V	1 mV	0.03 + 2	
200 V	10 mV	0.03 + 2	
1000 V	100 mV	0.03 + 2	

INPUT RESISTANCE: 11MΩ on 200mV, 2V, and 20V ranges. 10MΩ on 200V and 1000V ranges. (>1000MΩ on the 200mV and 2V ranges with all function buttons in the out position.)

NORMAL MODE REJECTION RATIO: >60dB at 50Hz, 60Hz ±0.15%.

MAXIMUM ALLOWABLE INPUT: 1000V DC or peak AC (<10 sec. per minute on 200mV and 2V ranges; 300V rms continuous).

SETTLING TIME: 1 sec. to within 1 count of final reading on range.

dB MODE (ref: 600Ω): Accuracy: ±(0.02dB + 1 count) (above -78dBm). Resolution: 0.01dB above 5% of range.

AC VOLTS (average responding)		ACCURACY (1 Year)*				
RANGE		18°-28°C				
		20Hz-	50Hz-	10kHz-	20kHz-	50kHz-
2V-750V	1 + 20	0.5 + 20	1 + 40	2.5 + 75	5 + 200	
200mV	1 + 20	0.5 + 20	1.5 + 40	8 + 75		

* Above 1800 counts.

MAXIMUM ALLOWABLE INPUT: 750V rms, 1000V peak (<10 seconds per minute on 200mV range; 300V rms continuous). 10⁷V*Hz maximum.

3dB BANDWIDTH: 300kHz typical.

INPUT IMPEDANCE: 10MΩ paralleled by <75pF on 20V, 200V, and 1000V ranges. 11MΩ on 200mV and 2V ranges. Capacitively coupled.

SETTLING TIME: 2 seconds to within 15 counts of final reading on range.

RANGE	INPUT	ACCURACY (±dBm)			
		20Hz- 10kHz	10kHz- 20kHz	20kHz- 50kHz	50kHz- 100kHz
2V-750V	200mV to 750V (-12 to +59.8dBm)	0.2	0.26	0.56	1.2
200 mV	20 mV to 200 mV (-32 to -12 dBm)	0.2	0.3	1	—
	2 mV to 20 mV (-52 to -32 dBm)	2	3	—	—
	1 mV to 2 mV (-58 to -52 dBm)	2*	—	—	—

Resolution: 0.01dB above 5% of range. *Up to 1kHz.

DC AMPS		MAXIMUM VOLTAGE BURDEN	ACCURACY (1 Year) 18°-28°C	
RANGE	RESOLUTION		±(%rdg + counts)	
200 μA	10 nA	0.25 V	0.15 + 2	
2 mA	100 nA	0.25 V	0.15 + 2	
20 mA	1 μA	0.25 V	0.15 + 2	
200 mA	10 μA	0.25 V	0.2 + 2	
2000 mA	100 μA	0.5 V	0.2 + 2	

OVERLOAD PROTECTION: 2A fuse (250V), externally accessible.

SETTLING TIME: 1 second to within 1 count of final reading.

AC AMPS (average responding)		ACCURACY (1 Year)*		
RANGE	MAXIMUM VOLTAGE BURDEN	18°-28°C		
		20Hz-50Hz	50Hz-10kHz	10kHz-30kHz
200μA-20mA	0.25 V	1 + 20	0.8 + 20	2 + 50
200 mA	0.25 V	1 + 20	0.8 + 20	—
2000 mA	0.5 V	1 + 20	0.8 + 20	—

* Above 1800 counts.

SETTLING TIME: 2 seconds to within 15 counts of final reading.

OHMS		ACCURACY (1 Year) 18°-28°C		MAX. VOLTAGE ACROSS UNKNOWN ON RANGE
RANGE	RESOLUTION	±(%rdg + counts)		
200 Ω	10mΩ	0.05 + 2*		0.2 V
2 kΩ	100mΩ	0.05 + 1		2.0 V
20 kΩ	1 Ω	0.05 + 2		0.2 V
200 kΩ	10 Ω	0.05 + 1		2.0 V
2 MΩ	100 Ω	0.05 + 2		0.2 V
20 MΩ	1 kΩ	0.2 + 1		2.0 V
200 MΩ	100 kΩ	2.0 + 1		2.0 V

*When properly zeroed. **Appropriate range selected automatically.

MAXIMUM ALLOWABLE INPUT: 450V DC or peak AC.

OPEN-CIRCUIT VOLTAGE: +5V.

DIODE TEST: Display reads junction voltage up to 2V. Test current: 0.7mA ±0.15mA.

SETTLING TIME: 2 seconds to within 1 count of final reading on range.

IEEE-488 BUS IMPLEMENTATION (Model 1753 Option)

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

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

INTERFACE FUNCTIONS: SHI, AHI, T5, TE0, L4, LE0, SR1, RL2, PPO, DC1, DT1, C0, E1.

PROGRAMMABLE PARAMETERS: Range, REL, dB, EOI, Trigger, Calibration, SRQ, Status, Output Format, Terminator.

GENERAL

DISPLAY: 4½-digit LCD, 0.5 in. height; polarity, function, range, and status indication.

RANGING: Auto or manual on DC volts, AC volts, ohms; manual on AC amps, DC amps.

AUTORANGING TIME: 300msec. per range.

WARMUP: 1 hour to rated accuracy.

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. Also detects and stores maximum and minimum readings continuously in data logger mode.

CONVERSION RATE: 3 readings per second.

OVERRANGE INDICATION: "OL" displayed.

MAXIMUM COMMON MODE VOLTAGE: 500V peak.

COMMON MODE REJECTION RATIO (1kΩ unbalance): >120dB at DC, 50Hz, 60Hz ±0.15%. >60dB in AC volts.

TEMPERATURE COEFFICIENT (0°-18°C & 28°-50°C): ±(0.1 × applicable accuracy specification)/°C except ±(0.07%+2)/°C for 50Hz-10kHz in AC volts.

ENVIRONMENT: Operating: 0° to 50°C; <80% relative humidity up to 35°C; linearly derate 3% RH/°C, 35° to 50°C. Storage: -40°C to +60°C.

POWER: 105-125V or 210-250V (external switch selected); 50-60Hz, 12VA. Optional 6-hour battery pack, Model 1758.

DIMENSIONS, WEIGHT: 89mm high x 235mm wide x 275mm deep (3.5 in. x 9.25 in. x 10.75 in.). Net weight 1.8kg (3 lbs., 14 oz.).

ACCESSORIES SUPPLIED: Model 1751 Safety Test Leads, Instruction Manual.

ACCESSORIES AVAILABLE:

- Model 1010: Single Rack Mounting Kit
- Model 1017: Dual Rack Mounting Kit
- Model 1301: Temperature Probe (-55°C to +150°C)
- Model 1600A: High Voltage Probe (40kV)
- Model 1651: 50A Current Shunt
- Model 1681: Clip-On Test Lead Set
- Model 1682A: RF Probe (250MHz)
- Model 1684: Hard Shell Carrying Case
- Model 1685: Clamp-On Current Probe (200A)
- Model 1751: Safety Test Leads
- Model 1753: IEEE-488 Interface
- Model 1754: Universal Test Lead Kit
- Model 1755: Calibration Interface
- Model 1758: Rechargeable Battery Pack
- Model 7008-3: IEEE-488 Digital Cable, 0.9m (3 ft.)
- Model 7008-6: IEEE-488 Digital Cable, 1.8m (6 ft.)

Specifications subject to change without notice.

E: UNING 40-21 62198

LTR	REVISIONS	APP.	DATE	DRN. A.J.S. DATE	DATE
A	REL. 891125		11-28-89	CKD.	
B	ISSUED BY [Signature]		11-17-92	APP. DCL	DATE 11/17/92

KEITHLEY Keithley Instruments Inc.
Cleveland, Ohio 44139

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