SPECIFICATIONS/580

Range	Resolution	Maximum Test Current	Non Dry Circuit Test Accuracy 1 Year, 18°-28°C ± (%Rdg + Counts) Pulsed	Non Dry Circuit Test Accuracy 1 Year, 18°-28°C ± (%Rdg + Counts) DC	Dry Circuit Test Maximum Power Dissipation in Sample	Dry Circuit Test Accuracy 1 Year, 18°-28°C ± (%Rdg + Counts) Pulsed
200mΩ	10 μΩ	100mA	0.04 + 2	0.04 + 3	500μW	0.05 + 2
2 Ω	100 μΩ	10mA	0.04 + 2	0.04 + 3	50μW	0.05 + 2
20 Ω	1mΩ	1mA	0.04 + 2	0.04 + 3	5μW	0.05 + 2
200 Ω	10mΩ	1mA	0.04 + 2	0.04 + 2		
2 kΩ	100mΩ	1mA	0.04 + 2	0.04 + 2		
20 kΩ	1 Ω	10 μA	0.05 + 2	0.05 + 2		
200 kΩ	10 Ω	10 μA	0.075 + 2	0.075 + 2		

CONFIGURATION: 4-wire (two sense, two source).

MAXIMUM SOURCE VOLTAGE: 20mV in Dry Circuit Test, 1V otherwise.

MAXIMUM TEST LEAD RESISTANCE

200mΩ and 2Ω Ranges: Up to 5Ω in each SOURCE lead and 10Ω in each SENSE lead with Non Dry Circuit Test; up to the selected full range resistance in each SOURCE lead and 10Ω in each SENSE lead with Dry Circuit Test.

20Ω through 200kΩ Ranges: Up to half of the selected range in each test lead.

CONVERSION RATE: 3 readings/second typical.

RANGING: Auto or manual.

AUTORANGING TIME: 200ms per range change, average.

SETTLING TIME: Less than 1 second to within 10 counts on range.

MAXIMUM INPUT OVERLOAD: 10V limited to 10A.

MAXIMUM COMMON MODE VOLTAGE: 30V rms at dc, 50 or 60Hz.

TEMPERATURE COEFFICIENT (0°-18°C and 28°-50°C): ±(0.1 × applicable accuracy specification)/°C.

GENERAL

DISPLAY: ±20,000 count LCD, range and status information displayed.

OVERRANGE INDICATION: "OL" displayed.

CONNECTORS: Measurement and rear panel EXTERNAL TRIGGER inputs: Banana jacks.

RELative: Allows zeroing of on-range readings. Allows readings to be made with respect to baseline value. Display annunciator indicates REL.

DRIVE: Selects either pulsed or dc SOURCE current. Pulsed drive provides automatic cancellation of thermal offsets, using 50% duty cycle pulse. Display annunciator indicates drive selected.

POLARITY: Selects either positive or negative SOURCE current in either drive. Display annunciator indicates polarity selected.

TRIGger: Allows single pulsed measurements.

OPERATING ENVIRONMENT: 0°-50°C, less than 80% R.H. up to 35°C; linearly derate 3% R.H./°C from 35° to 50°C.

STORAGE ENVIRONMENT: -25° to +60°C.

POWER: 105-125V or 210-250V (switch selected), 90-110V available. 50-60Hz, 12VA. Optional 6 hour battery pack, Model 1978.

DIMENSIONS, WEIGHT: 89mm high × 241mm wide × 300mm deep (3½in. × 9½in. × 11¾in.). Net weight 3.2kg (7 lbs.). Test lead pouch adds 76mm (3in.) in height.

ACCESSORIES AVAILABLE:

Model 1010: Single Rack Mounting Kit.
Model 1017: Dual Rack Mounting Kit.
Model 1755: Calibration Interface.
Model 1978: Rechargeable Battery Pack.
Model 5801: Test Lead Pouch.
Model 5802: Isolated Analog Output/IEEE-488 Interface.
Model 5804: Test Lead Set.
Model 5805: Kelvin Probes.
Model 5806: Kelvin Clip Leads.
Model 7007-1: Shielded IEEE-488 Digital Cable (1m).
Model 7007-2: Shielded IEEE-488 Digital Cable (2m).
Model 7008-3: IEEE-488 Digital Cable (3ft.).
Model 7008-6: IEEE-488 Digital Cable (6ft.).
Model 8003: Low Resistance Test Fixture.

ACCESSORIES SUPPLIED: Models 5801, 5804, 5805, 5806, Operator's and Service Manuals.