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## Specifications

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### Dielectric Strength

Voltage Range:	DC - 0 to 6kV programmable (Positive pole grounded) AC - 0 to 6kVrms programmable, 60Hz	
Voltage Accuracy:	Setting:	+/- (2% + 10V)
	Stability	< +/- 1% for power line variation +/- 10%
	Ripple:	< 1% for $I_s = 100\mu A$
	Reading:	+/- (1.5% + 10V)
Voltage Ramp:	10V/sec to 6000V/sec programmable by time	
Output Voltage	0.6 Mohm	0 to 3000 V
Impedance:	1.2 Mohm	3000 to 6000 V
Current Limited:	DC and AC <10mA (5 mA >3000V)	
Breakdown Detection:	Imax programmable, 1uA to <10mA (5mA >3000V) in 1uA steps	
	Delta I programmable, 100uA to 5mA (arc detection, 10us or greater)	
	Imax and Delta I (real current)	
Voltage Cut Off:	< 8msec after breakdown	
Leakage Current Monitoring:	Range:	0 to <10mA (5mA > 3000V)
	Accuracy:	+/- (2% of reading +10 counts)
		+/- (3% of reading +2 counts < 100uA)
Test Time:	Rise, hold and fall, each programmable to 999 sec	
Fail Detection:	Visual on LCD display or audible	
	Memory storage of breakdown voltage and leakage current	

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### **Insulation Resistance**

Resistance Range:	5x10 <sup>5</sup> (500 kohms) - 2x10 <sup>12</sup> (2 Teraohms) 6 ranges or auto ranging
Resistance Accuracy:	+/- (3% + 1 digit)
Voltage Range:	45, 100, 250 or 500 (Positive pole grounded)
Voltage Accuracy:	+/- 1%
Test Time:	1 to 999 sec programmable
Current Limited:	< 2mA
Measure limit:	Pass/fail threshold

### **General**

Display:	LCD graphics	Voltage warning indicator
Interfaces:	IEEE-488 Safety interlock	(PLC) Programmable logic control
Input Terminals:	High voltage probe	
Other Features:	Stored test conditions (16 sets) Sequential testing (Megohmmeter & Hipot) Audible Bell	
Environmental:	Operating 0 to +50 degrees C Storage - 10 to +60 degrees C	
Power:	115 or 230Vac +/- 10%	50/60 Hz 40W maximum
Mechanical	Bench mount with retractable front feet Dimensions: (131mm high x 445mm wide x 380mm deep) (5.15" x 17.50" x 14.96") Weight: Approx. 17 kg (37 lbs) – Net, 20 kg (45 lbs) - Shipping	
Accessories Supplied:	Instruction Manual Interlock Connector	Power Cable High Voltage Probe Calibration Certificate
Accessories Available:	1870-50 - Rack Mount Flanges 1870-51 - Probe Cable, Unterminated 1870-52 - Corded Product Adaptor, 115V 1870-53 - High Voltage Probe, 5 meters 1870-54 - Probe Cable, Unterminated, 5 meters 1870-55 - Custom IR Test Voltage (factory installed)	