

Model M1500

PROVEN AUTOMATIC ELECTRICAL TESTING SOLUTIONS



ELECTRICAL PARAMETERS

Continuity

Current	0.1mA to 1000mA	Programmable in 0.01mA steps to 1mA, 1mA steps >1mA
Voltage Limit	1Vdc to 30Vdc	Programmable in 0.1V steps

High Voltage DC

Voltage	25Vdc to 1500Vdc	Programmable in 1V steps
Current	Up to 4mA	

High Voltage AC

Voltage	25Vrms to 1000Vrms	Programmable in 1V steps
Current	Up to 5mA	
Frequency	50Hz fixed (see SYSTEM OPTIONS)	

Mswitch Buses

Function	Two additional stimulus buses available to all test points for functional testing.
Maximum Load	0.5A at 125Vac, 2A at 30Vdc
Maximum Voltage	250Vac, 220Vdc
Maximum Current	2A (switching current)
Maximum Switching Capacity	62.5VA, 60W

TYPICAL TEST PERFORMANCE

Continuity	0.05s per established connection 0.05s shorts test per point
Insulation and Hi-Pot	Programmable Ramp, Pre Dwell and Measure Dwell. Minimum 0.01s per point.

MEASUREMENT

Continuity 4-Wire Mode	0.002Ω to 100kΩ	Accuracy 0.5% ±0.002Ω @ 1000mA	Resolution 0.001Ω
Continuity 2-Wire Mode	0.1Ω to 100kΩ	Accuracy 0.5% ±0.1Ω @ 1000mA	Resolution 0.1Ω
DC Insulation	5kΩ to 1000MΩ	Accuracy 5% ±0.5μA	

OPTIONAL MODULES

AC1000 - AC Hi-Pot	1μA to 5000μA	Accuracy 10% including parasitic current	
CAP - Capacitance Module	0pF to 1000pF	Basic Accuracy 5% ±5pF	Resolution 1pF
	1001pF to 3000pF	Basic Accuracy 5% ±10pF	Resolution 10pF
	3nF to 300nF	Basic Accuracy 5% ±2nF	Resolution 0.1nF
	0.3μF to 30μF	Basic Accuracy 5% ±2μF	Resolution 1μF
Measurements include parasitic capacitance			
Capacitance & Inductance Module "LCR"	100pF to 10mF	Basic Accuracy 2% +/- 5pF	<i>may be affected by external interface</i>
T&H - Temperature & Humidity Probe	0.01μH to 99,999H	Basic Accuracy 0.02%	
	1°C to 70°C	Accuracy ±0.5°C	Resolution 0.01°C
External Excitation Modules (functional test switching) Up to 1500V Isolation	0% to 100% RH	Accuracy ±2% RH	Resolution 0.03%
	EEMC5 (Changeover)	Max Current 5A	Points per card 16
	EEMD12 (Dual Bus)	Max Current 12A	Points per card 64
For Software controlled PSU options contact MK			

SYSTEM OPTIONS

Continuity Current up to 2A, 5A or 10A
Continuity Range to 1MΩ
Insulation Resistance Range up to 5GΩ, 10GΩ or 50GΩ
HVAC Frequency 60Hz fixed or up to 400Hz variable
Fixed or Floating Earth Options.

SUPPLY OPTIONS

115Vac 50/60Hz 1Ø
230Vac 50/60Hz 1Ø
415Vac 50/60Hz 3Ø

INTERFACE

64 off 2-Wire test points per board. (32 off in 4-Wire mode.)
Maximum 1024 Test Points per sub-rack.
Connection via high specification 37 way D-type sockets
Safety Interlock connection on front panel.
For custom front end connector options contact MK

LAYOUT OPTIONS

Standard 19" Rack Housing
Static Desktop or Mobile Ruggedised Cabinet
Single Station or Distributed Satellite Switching.

Under the MK Test Systems Continuous Improvement Programme, specifications are subject to change.