

Model D1500

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 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	

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	0.002 Ω to 100k Ω	Accuracy 0.5% \pm 0.002 Ω @ 1000mA	Resolution 0.001 Ω
Continuity 2-Wire Mode	0.1 Ω to 100k Ω	Accuracy 0.5% \pm 0.1 Ω @ 1000mA	Resolution 0.1 Ω
DC Insulation	5k Ω to 1000M Ω	Accuracy 5% \pm 0.5 μ A	

OPTIONAL MODULES

AC Hi-Pot	1 μ A to 5000 μ A	Accuracy 10% including parasitic current	
Capacitance Module "CAP"	0pF to 1000pF	Basic Accuracy 5% \pm 5pF res1pF	Resolution 1pF
	1001pF to 3000pF	Basic Accuracy 5% \pm 10pF res10pF	Resolution 10pF
	3nF to 320nF	Basic Accuracy 5% \pm 2nF res0.1nF	Resolution 0.1nF
	0.3 μ F to 30 μ F	Basic Accuracy 5% \pm 2 μ F res1 μ F	Resolution 1 μ F
Measurements include parasitic capacitance			
Capacitance & Inductance Module "LCR"	0.001pF to 99,999 μ F	Basic Accuracy 0.02%	
	0.01 μ H to 99,999H	Basic Accuracy 0.02%	
Temperature & Humidity Probe	1 $^{\circ}$ C to 70 $^{\circ}$ C	Accuracy \pm 0.5 $^{\circ}$ C	Resolution 0.01 $^{\circ}$ C
	0% to 100% RH	Accuracy \pm 2% RH	Resolution 0.03%
External Excitation Module (functional test switching)	EEMC5 (Changeover)	Current 5A	Points per card 16
	EEMD12 (Dual Bus)	Current 12A	Points per card 64
	Mswitch	Multibus architecture - See Model M1500	
For Software controlled PSU options contact MK			

SYSTEM OPTIONS

Continuity Current up to 2A, 5A or 10A
Continuity Range to 1M Ω
HV Resistance Range up to 5G Ω , 10G Ω or 50G Ω
HVAC Frequency 60Hz fixed or to 400Hz variable
Fixed or Floating Earth Options.

SUPPLY OPTIONS

115Vac 50/60Hz 1 \emptyset
230Vac 50/60Hz 1 \emptyset
415Vac 50/60Hz 3 \emptyset

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 MK Test Systems Continuous Improvement Programme, Specifications are subject to change.