

Model D2500

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 2500Vdc	Programmable in 1V steps
Current	Up to 4mA	

High Voltage AC

Voltage	25Vrms to 1500Vrms	Programmable in 1V steps
Current	Up to 5mA (see SYSTEM OPTIONS)	
Frequency	50Hz fixed (see SYSTEM OPTIONS)	

TYPICAL TEST PERFORMANCE

Continuity	0.1s per established connection 0.1s shorts test per point
Insulation and Hi-Pot	Programmable Ramp, Pre Dwell and Measure Dwell (minimum 1s each)

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 0.25 Ω @ 1000mA	Resolution 0.1 Ω
DC Insulation	5k Ω to 1000M Ω	Accuracy 5% \pm 0.5 μ A	

OPTIONAL MODULES

AC1500 - AC Hi-Pot	1 μ A to 5000 μ A	Accuracy 10% including parasitic current	
CAP - Capacitance Module	0pF to 1000pF	Basic Accuracy 5% \pm 5pF	Resolution 1pF
	1001pF to 3000pF	Basic Accuracy 5% \pm 10pF	Resolution 10pF
	3nF to 300nF	Basic Accuracy 5% \pm 2nF	Resolution 0.1nF
	0.3 μ F to 30 μ F	Basic Accuracy 5% \pm 2 μ F	Resolution 1 μ F
	Measurements include parasitic capacitance		
LCR - Capacitance & Inductance Module	0.001pF to 99,999 μ F	Basic Accuracy 0.02%	
	0.01 μ H to 99,999H	Basic Accuracy 0.02%	
T&H - 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 Modules (functional test switching)	EEMC5 (Changeover)	Max Current 5A	Points per card 16
	EEMD12 (Dual Bus)	Max Current 12A	Points per card 64
Up to 2500V Isolation	Mswitch	Multibus architecture - See Model M1500	
	For Software controlled PSU options contact MK		

SYSTEM OPTIONS

Continuity Current up to 2A, 5A or 10A
Insulation Resistance Range up to 5G Ω , 10G Ω or 50G Ω
HVAC Frequency 60Hz fixed or up to 400Hz variable
HiPot current up to 500mA.
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 16 way Molex minifit Jr
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.