

Model M2500

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

High Voltage AC

Voltage	25Vrms to 1500Vrms	Programmable in 1V steps
Current	Up to 5mA	
Frequency	50Hz fixed	

Mswitch Stimulus Buses

Maximum Load	12A at 250VAC, 12A at 170VDC
Maximum Switching Voltage	250Vac, 220Vdc
Maximum Current	12A
Isolation Voltage	1500Vrms / 2500Vdc

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% ±0.25Ω @ 1000mA	Resolution 0.1Ω
DC Insulation	5kΩ to 1000MΩ	Accuracy 5% ±0.5μA	

OPTIONAL MODULES

AC Hi-Pot	1μA to 5000μA	Accuracy 10% including parasitic current	
Capacitance Module "CAP"	0pF to 1000pF	Basic Accuracy 5% ±5pF res1pF	Resolution 1pF
	1001pF to 3000pF	Basic Accuracy 5% ±10pF res10pF	Resolution 10pF
	3nF to 320nF	Basic Accuracy 5% ±2nF res0.1nF	Resolution 0.1nF
	0.3μF to 30μF	Basic Accuracy 5% ±2μF res1μF	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>	
	0.01μH to 99,999H	Basic Accuracy 0.02%	
Temperature & Humidity Probe	1°C to 70°C	Accuracy ±0.5°C	Resolution 0.01°C
	0% to 100% RH	Accuracy ±2% RH	Resolution 0.03%
External Excitation Module (functional test switching)	Mswitch	Multibus architecture (2 additional stimulus buses) Stimulus available at each test point.	
For Software controlled PSU options contact MK			

SYSTEM OPTIONS

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

INTERFACE

64 off 2-Wire test points per switching module. (32 off in 4-Wire mode.)
Maximum 512 Test Points (8 Modules) per sub-rack.
Connection via Molex minifit Junior sockets
Safety Interlock connection on front panel.
For custom front end connector options contact MK

SUPPLY OPTIONS

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

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.