

Multi-Point Tester



Unparalleled performance! Unmatched speed and accuracy! Unbeatable value!

MPT Series Wiring Analyzers use computer controlled, state-of-the-art switching architecture to evaluate the functionality of complex electrical wiring systems. Key features include:

- Up to 1,600 test points (see MPT-DHV for larger systems)
- Up to 3000VDC/3500VAC
- Up to 5A/48V programmable source
- MASS HiPot Algorithm
- Windows-based programming
- Easy to use

The MPT's switching architecture creates a powerful combination of high output current and measurement accuracy with virtually unlimited expansion capability, ***mixed high and low voltage*** energization, ***floating ground testing, fault loca-***

tion and ***extremely fast test-cycle times***.

One of the ***smallest footprints*** in the industry, each system is fully transportable and ideal for complex interconnection testing.

CableTest products have found widespread application in a number of test environments, ranging from simple, high-production continuity tests on computer data cables, to complex analysis of complete wiring assemblies in military combat aircraft and nuclear submarines. Let CableTest help you **achieve more. Faster.**



[Switching Options]

Model	VDC	VAC	I	Points	Connector
MUX-024	5000	3500	3.0	24	Positronic
MUX-036	3500	3000	3.0	36	Positronic
MUX-036L	3500	2500	10.0	36	Positronic
MUX-080	2000	1500	2.5	80	Positronic
MUX-120	2000	1500	2.5	120	Positronic
MUX-150CH	1500	1000	2.5	150	Champ-50
MUX-150DB	1500	1000	2.5	150	DB-50
MUX-150ZIF	1500	1000	2.5	150	Cannon DL-ZIF
MUX-200DB	500	-	2.0	200	DB-50
MUX-200S	5	-	0.1	200	DB-50



MPT-5000L

Notes:

- Maximum number of slots is 8
- For greater than 1,600 test points, see MPT-DHV system
- All points can be used for energization or measurement
- Switching options can be mixed
- Special interface panels and/or connectors are available

Parameter	Range	Accuracy	Resolution
HVDC-3000 Programming/Measurement Capabilities			
Voltage	50V to 3000V	± 1%, ± 5V	1V
Maximum Current	5mA		
Insulation Resistance Measurement	1M to 49 MOhm	± 3%	
	50M to 499 MOhm	± 5%	
	500M to 1.9GOhm	± 10%	
	2G to 10 GOhm	± 20%	
Leakage Current Measurement	1nA to 5mA	± 3%	
HVAC-3500 Programming/Measurement Capabilities			
Voltage	50V to 3500V	± 1%, ± 5V	1V
Maximum Current	25mA, 35mA, 50mA (100mA optional)		
Arc Detection	Automatic		
Frequency	50Hz	± 1%	
	60Hz	± 1%	

Notes:

- The AC HiPot neutralizes the cable's capacitive current, measuring only the resistive leakage current
- AC and DC HiPot failures are detected throughout the entire HiPot cycle
- HiPot and insulation resistance tests are performed simultaneously

[Test Programming]

- Wire list generation directly from existing spread-sheets or "From-To" lists
- Learn from a known good product
- Program using user or product designators



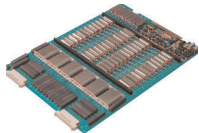
Hand-held Probe

[Measurement Capability]

Low Voltage Measurement Capabilities				
Parameter	Max Current	Range	Accuracy (Tared)	Resolution
2-wire Resistance Measurement	100mA	0 to 3999 mOhm	±1%, ±50 mOhm	25 mOhm
	100mA	4 to 39.99 Ohm	±1%, ±50 mOhm	25 mOhm
	1mA	40 to 399.9 Ohm	±1%	100 mOhm
	1mA	400 to 3999 Ohm	±1%	1.0 Ohm
	100µA	4k to 39.99 kOhm	±1%	10 Ohm
	10µA	40k to 399.9 kOhm	±1%	100 Ohm
4-wire Resistance Measurement	100mA	0 to 3999 mOhm	±1%, ±5 mOhm	1 mOhm
	100mA	4 to 39.99 Ohm	±1%, ±5 mOhm	1 mOhm
	1mA	40 to 399.9 Ohm	±1%	100 mOhm
	1mA	400 to 3999 Ohm	±1%	1.0 Ohm
	100µA	4k to 39.99 kOhm	±1%	10 Ohm
	10µA	40k to 399.9 kOhm	±1%	100 Ohm
Capacitance Measurement		100pF to 1000uF	±2%, ±10pF	
Voltage Measurement		2V to 500VDC	±2%, ±50mV	



Calibration



MUX-024



MUX-036L



MUX-150DB

HCS Programming/Measurement Capabilities			
Parameter	Range	Accuracy	Resolution
Voltage	1V to 28V (96V optional)	±0.5%, ±0.01V	0.01V
Current	1mA to 2.5A (5.0A optional)	±1%, ±0.1mA	0.01V
2-wire Resistance Measurement	0.2 to 99.9 Ohm	±1%, ±0.05 Ohm	0.025 Ohm
	100 to 9.9 kOhm	±1%	0.1 Ohm
	10k to 100 kOhm	±3%	10 Ohm
4-wire Resistance Measurement	0.01 to 99.9 Ohm	±1%, ±0.005 Ohm	0.0001 Ohm
	100 to 9.9 kOhm	±1%	0.1 Ohm
	10k to 100 kOhm	±3%	10 Ohm

[Components Tested]

- Resistors, capacitors and transistors
- Diodes: Forward Voltage, Reverse Voltage, Leakage and Zener Voltage (Zener test requires HCS)
- Inductors (requires LCR bridge)
- Relays, Switches, Solenoids and Lamps (requires programmable HCS)

[Inputs/Outputs]

- Maximum of 12 Inputs or Outputs or combinations
- Use of dry switch for safe PLC interfacing.

[Optional Test Capabilities]

- Floating measurement system for grounded products
- LCR, DMM or external power supply integration
- 0.1V MSR test stimulus
- 0.4V high current source

[Physical Data]

- 17-3/8" (44cm) W x 15" (38cm) H x 21" (53cm) D
- Weight: <70lbs (32kg)
- Power Requirement: 115VAC/60 Hz @ 10A (optionally 240VAC/50Hz @ 5A)

1. Certain features in this datasheet are optional
 2. CableTest Systems reserves the right to update specifications at any time (see www.CableTest.com for the latest updates)

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