

Wiring Analyzer

Multi-Point Tester

MPT-1000T



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 11,200 test points (see MPT-DHV for larger systems)
- Up to 5000VDC/6000VAC
- Up to 5A/96V 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-008	5000	6000	3.0	8	CPC
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-1000T

Notes:

- Maximum number of slots is 56
- For greater than 11,200 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

[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

[Inputs/Outputs]

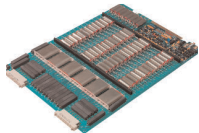
- Maximum of 12 Inputs or Outputs or combinations
- Use of dry switch for safe PLC interfacing



Calibration

[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 1000µF	±2%, ±10pF	
Voltage Measurement		2V to 500VDC	±2%, ±50mV	



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

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%	
HVDC-5000 Programming/Measurement Capabilities			
Voltage	0 to 5000VDC	±2%	1V
Maximum Current	60mA		
Insulation Resistance Measurement	1M to 500 MOhm	±5%	
Leakage Current Measurement	0 to 60mA	±5%	
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%	
HVAC-6000 Programming/Measurement Capabilities			
Voltage	300 to 6000V	±1%, ±50V	1V
Maximum Current	Up to 250mA		
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

[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 HCS)

[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]

- 27" (69cm) W x 59" (150cm) H x 26" (66cm) D
- Weight: <800lbs (363kg)
- Power Requirement: 208VAC/60 Hz @ 20A (optionally 240VAC/50Hz @ 15A)

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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