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 5,600 test points (see MPT-DHV for larger systems)
- Up to 5000VDC/6000VAC
- Up to 5A/48V programmable source
- MASS HiPot Algorithm
- Windows-based programming with Discovery/Studio software
- 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 location** 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 sub-marines.

Let CableTest help you **achieve more**. **Faster**!

MPT-5000L

MPT-1000

MPT-1000T

MPT-1000TXD

[Switching Options]

Please refer to the MPT/MPTII Series Switching Data Sheet

[Test Programming]

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

[Measurement Capability]

Low Voltage Measurement Capabilities				
Parameter	Stimulus	Range	Accuracy	Resolution
2-wire Resistance Measurement	100mA	200 mΩ to 40 Ω	1% ± 200mΩ	25mΩ
	1mA	40 to 400 Ω	1%	100mΩ
	1mA	400 to 4000 Ω	1%	1Ω
	100μA	4k to 40 kΩ	1%	10Ω
	10μA	40k to 400 kΩ	1%	100Ω
4-wire Resistance Measurement	100mA	5 mΩ to 40 Ω	1% ± 5mΩ	1mΩ
	1mA	40 to 400 Ω	1%	100mΩ
Capacitance Measurement		100pF to 1000 μ F	2% ±10pF	
Voltage Measurement		2V to 500 VDC	2% ±50mV	

HCS Programming /Measurement Capabilities			
Parameter	Range	Accuracy	Resolution
Voltage	1V to 28V (96V optional)	0.5% ±0.01 V	0.01V
Current	1mA to 2.5A (5.0A optional)	1% ±0.1mA	0.01V
2-wire Resistance Measurement	200mΩ to 99.9Ω	1% ±50mΩ	25mΩ
	100Ω to 9.9kΩ	1%	100mΩ
	10kΩ to 100kΩ	3%	10Ω
4-wire Resistance Measurement	10mΩ to 99.9Ω	1% ±5mΩ	100mΩ
	100Ω to 9.9kΩ	1%	100mΩ
	10kΩ to 100kΩ	3%	10Ω

High Voltage Measurement Capabilities		
Parameter	Range	Accuracy
HVDC-3000 Programming/Measurement Capabilities		
Voltage	50 to 3000V	1% ±5V
Maximum Current	5mA/3mA	
Insulation Resistance	1M to 49 MΩ	3%
	50M to 499 MΩ	5%
	500M to 10GΩ	10%
Leakage Measurement	1nA to 5 mA	3%
HVDC-5000 Programming/Measurement Capabilities		
Voltage	100 to 5000V	2%
Maximum Current	60mA	
Insulation Resistance	1M to 100GΩ	5%
Leakage Measurement	Up To 60 mA	5%
HVAC-3500 Programming/Measurement Capabilities		
Voltage	50 to 3500 V	1% ±5V
Maximum Current Output	50mA	
Leakage Measurement	25mA	1% ±100uA
Arc Detection	Automatic	
Frequency	Follows line frequency	
HVAC-6000 Programming/Measurement Capabilities		
Voltage	300 to 6000 V	1% ±50V
Maximum Current Output	up to 250mA (800mA Optional)	
Leakage Measurement	35mA (85 Optional)	5% ±1mA
Arc Detection	Automatic	
Frequency	Follows line frequency	

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

[Physical Data]

MPT-5000L
- 17-3/8" (44cm) W x 15" (38cm) H x 21" (53cm) D
- Weight: <70lbs (32kg)
- Power Requirement: 115VAC/60 Hz @ 10A (optionally240VAC/50Hz @ 5A)

MPT-5000
- 28" (71cm) W x 15" (38cm) H x 21" (53cm) D
- Weight: <90lbs (40kg)
- Power Requirement: 115VAC/60 Hz @ 10A (optionally 240VAC/50Hz @ 5A)

MPT-1000
- 27" (69cm) W x 44" (112cm) H x 26" (66cm) D
- Weight: <500lbs (226kg)
- Power Requirement: 115VAC/60 Hz @ 15A (optionally 240VAC/50Hz @ 7.5A)

MPT-1000T
- 27" (69cm) W x 67" (170cm) H x 26" (66cm) D
- Weight: <800lbs (363kg)
- Power Requirement: 208VAC/60 Hz @ 20A (optionally 240VAC/50Hz @ 15A)

MPT-1000TXD (allows Integrated Connector Interface)
- 27" (69cm) W x 77" (196cm) H x 38" (96cm) D
- Weight: <1000lbs (454kg)
- Power Requirement: 208VAC/60 Hz @ 20A (optionally 240VAC/50Hz @ 7.5A)

Note: systems equipped with ACS require additional phase for power requirements.

[Components Tested]

- Resistors, capacitors and inductors
- Diodes: Forward Voltage, Reverse Voltage, Leakage and Zener Voltage (Zener test requires SMU), Transorbs (requires DC HiPot or SMU)
- Inductors (requires LCR bridge)
- Relays, Switches, Solenoids and Lamps (requires DLM)

[Optional Test Capabilities]

- Floating measurement system for grounded products
- LCR, DMM, SMU or external power supply integration

[Inputs/Outputs]

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

Distributed by:

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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