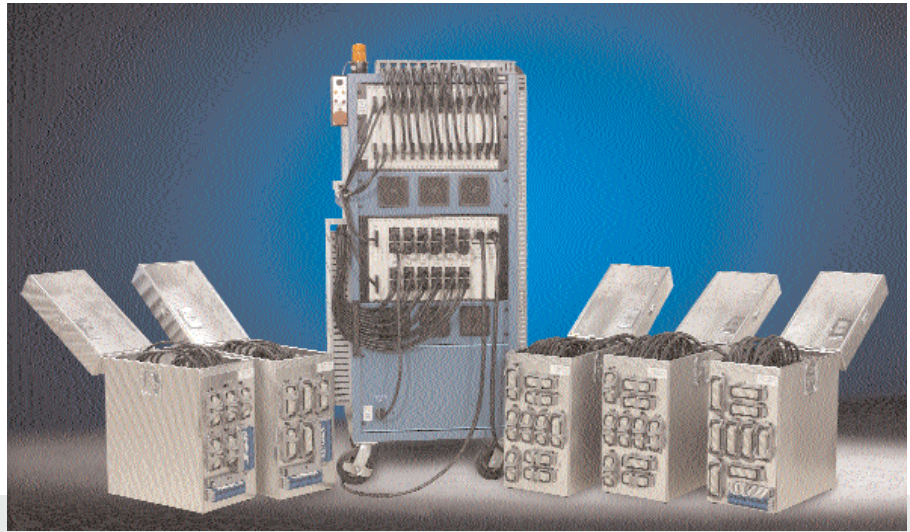


Distributed High Voltage System



Distributed High Voltage System supports
5000VDC/6000VAC testing for up to
30,000 test-points!

The MPT-DHV distributed high voltage system was designed specifically for the aerospace and transportation industry for testing aircraft, rocket, satellite and train wiring systems where HiPot testing at remote locations is required.

Any MPT-based wiring analyzer can be distributed through multiple remote test units **reducing the need for long adapter cables.**

Key features include:

- Up to 30,000 test points
- Up to 5000VDC/6000VAC HiPot testing
- Up to 5A/96V energization

The MPT-DHV 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.***

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-DHV

Notes:

- Maximum number of slots: 53 on the main MPT cabinet and 8 per suitcase
- All points can be used for energization or measurement
- Switching options can be mixed
- Special interface panels and/or connectors are available



Suitcase - Closed

[Inputs/Outputs]

- RS-232 MPT-HPP digital probe interface
- Common ground



Suitcase - Open

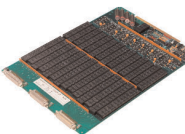
[Measurement Capability]

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

MUX-008



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%	
Leakage Current Measurement	2G to 10 GOhm	±20%	
	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%	
	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%	

[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)

[Physical Data - Remote Units]

- 21" (53cm) W x 26" (66cm) H x 12" (30cm) D
- Weight: < 80lbs (36kg)
- Power Requirement: 208VAC/60 Hz @ 20A (optional 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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