



Product Sheet

Multi-Platform Vehicle Test Set

MULTI-PLATFORM VEHICLE TEST SET

Multi-Platform Vehicle Test Set (MPVTS) is a self-contained portable equipment rack test instrument for performing vehicle electrical system verification. Kratos can develop a custom MPVTS software application designed specifically to perform complete pre-mission verification of your airborne, ground, or marine vehicle. The MPVTS is the first test set designed to be completely vehicle platform independent.

The MPVTS is used to provide control and monitoring of the communication and input and/or output (I/O) signals to and from various vehicle platforms. It can display vehicle telemetry and system status while allowing the test operator to transmit vehicle commands in either direct link or radiate mode. Radiate Mode is RF Communication for UHF or L-Band datalinks.

An embedded RF Power Meter can be used to measure signal strength of radiated datalink. Direct link uses Ethernet, USB, RS-232, or RS-422. Multiple Analog and Relay I/O channels are available for monitoring and providing stimulus to vehicle systems. The MPVTS can also provide power to vehicle systems for testing and verification. An embedded Oscilloscope can be used to monitor any analog, discrete, or power signals.



Features

- Easy to use Graphical User Interface
- Automated and Manual Testing
- L-Band or UHF RF Communication
- Operate in Direct or Radiate Mode
- Analog and Discrete Input/Output
- Hi-current I/O
- Rugged Transportable Design

Applications

- Pre-mission Vehicle Checkout
- “Go/No-Go” and Bench Testing
- LRU Troubleshooting

The MPVTS is a turn-key system that can be used to perform full Go/No-Go vehicle verification in either manual or automated test modes. All equipment is encased in a portable, ruggedized transit case that is quick and easy to setup to support any mission requirements.

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Electrical

Input Power:	MPVTS uses two primary power sources: one for internal components and the second for vehicle power
MPVTS Input Power:	115VAC +/- 10 VAC, 60Hz, 15 Amps
Vehicle Power	MPVTS Vehicle Power Supply Input: 115VAC +/- 10 VAC, 60 Hz, 30 Amps
Analog I/O:	6 High Current Outputs: 0-36VDC, 10A 4 Low Current Outputs: 0-20 VDC, 5A
Relay Closures:	34 Inputs: 0-40 VDC (4kohm nominal load) 10 Inputs: 0-20 VDC (4kohm nominal load) 6 Outputs: -10-10 VDC
Serial Communication:	9 Relay Closure: 8 Normally Open (NO), 1 Normally Closed (NC)
	RS-422:5 wire, 115,200 baud, 8, N, 1 RS-232:9 pin RS-485:2 wire, 19.2 baud, 8, Odd parity, 1 USB: 3 ports on front panel Ethernet: TCP/IP

Physical

Size:	8U, E.I.A. Rackmount Transit Case - 23"H x 30"W x 30"D
Weight:	Less than 150lbs
Temperature:	+5° C to +40° C
Reliability:	1000hrs

Options:

RF Modules
Interface Cables
Rack Configuration