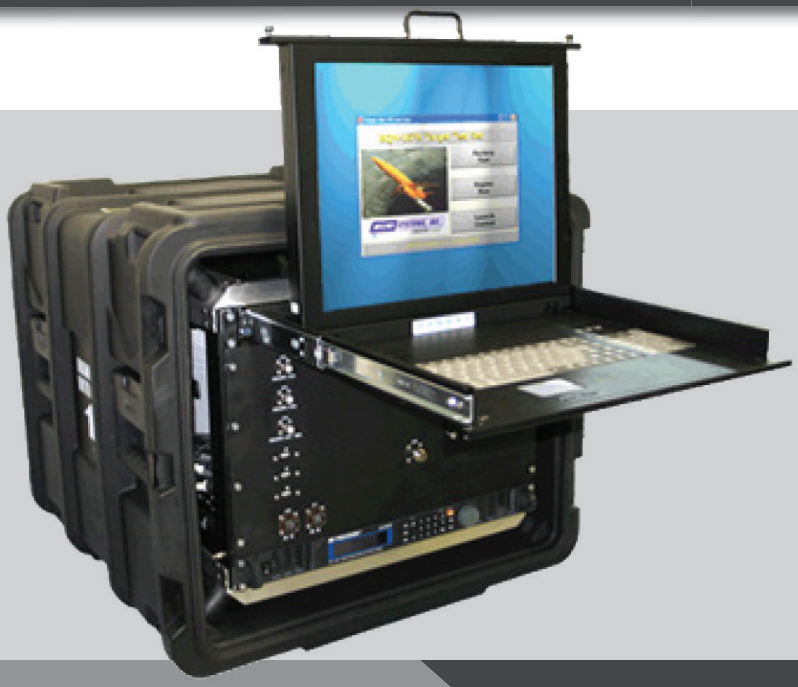
MULTI-PLATFORM VEHICLE TEST SET

DATA SHEET & TECHNICAL SPECIFICATIONS



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" & Bench Testing
- LRU Troubleshooting

The 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.

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

KRATOS®
UNMANNED SYSTEMS DIVISION

Approved for Public Release: DOPSR 18-S-2400

Electrical

- Input Power: MPVTS uses two primary power sources; 1 for internal components and the second for vehicle power
- MPVTS Input Power: 115VAC +/- 10 VAC, 60Hz, 15 Amps
  MPVTS Vehicle Power Supply Input: 115VAC +/- 10 VAC, 60 Hz, 30 Amps
- Vehicle Power:
  6 High Current Outputs: 0 – 36VDC, 10A
  4 Low Current Outputs: 0 – 20 VDC, 5A
- Analog I/O:
  34 Inputs: 0 – 40 VDC (4kohm nominal load)
  10 Inputs: 0 – 20 VDC (4kohm nominal load)
  6 Outputs: -10 – 10 VDC
- Relay Closures:
  9 Relay Closures: 8 Normally Open (NO),
  1 Normally Closed (NC)
- Serial Communication:
  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 - 30"W x 30"D x 23"H
- Weight: Less than 150lbs
- Temperature: +5° C to +40° C
- Reliability (MTBF): 1000hrs

Options

- RF Modules
- Interface Cables
- Rack Configuration

35 Hill Ave.
Fort Walton Beach, FL 32548
ContactMSI@kratosdefense.com
www.kratosdefense.com
(850) 244-2332