

The VCMM® is HERE!!!

The **Vehicle Communication & Measurement Module (VCMM®)** combines all of the functionality of the VMM, VCM II, and MTS 4000/4100 vibration analyzer in an industry leading one-box solution. The combining of this functionality will provide dealers with industry leading diagnostic capability at a significantly lower cost of ownership.

KEY FEATURES

- Vehicle Communication (VCM II capability)
- Customer Flight Recorder capable
- 4-channel oscilloscope
- 4-Channel digital multi-meter
- Vibration analysis
- Driveline balance
- Signal generator
- More functionality to come ...

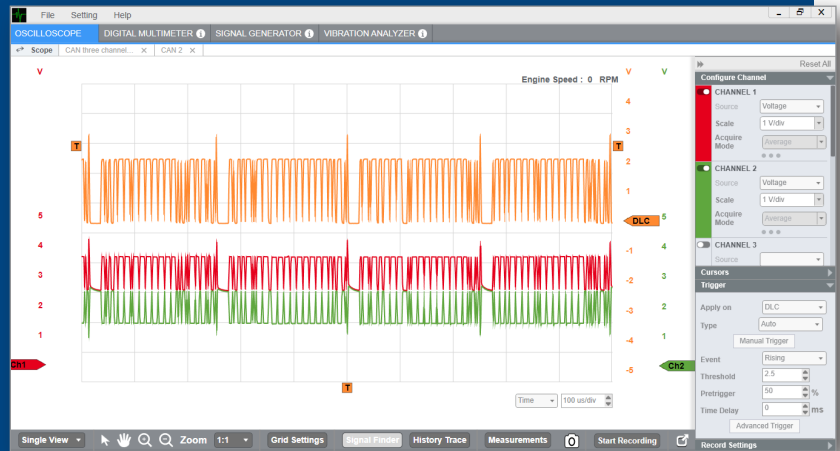


VCMM Exclusive Features Makes Using The Scope Easier!!



4-Channel Oscilloscope with Direct 5th Channel DLC Access

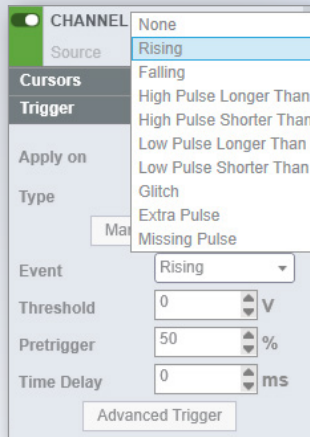
- Four independent (differential) input channels
- A fifth high-speed channel that can directly monitor CAN signals at the DLC connector without the need of flex probes. DLC connector pin/s for measurement are selectable
- Improved scope user interface
- Channel signals can be repositioned via menu selection or by drag and drop
- Capture/record capability to assist in capturing intermittent issues
- Advanced triggering capability
- New "Time/Angle" time based settings (CKP/CMP timing diagnostics)
- Preconfigured setup configurations for common signals



Easier-To-Use Oscilloscope Interface

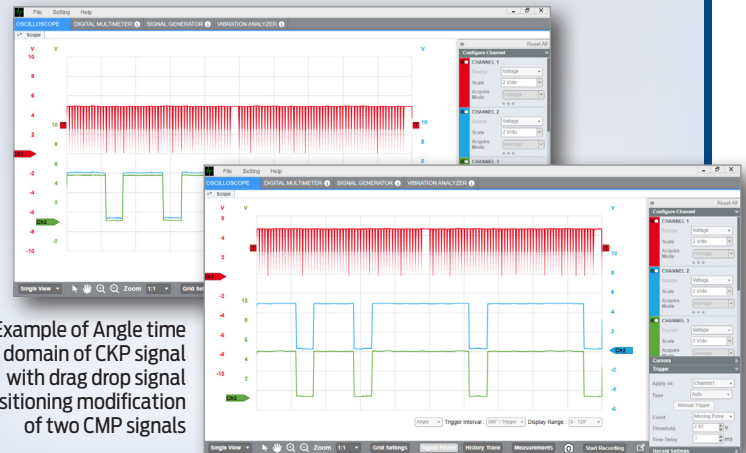
Signal Trigger Options

- Multiple signal triggering options provides the technician the ability to trigger/target on specific areas of measured signals
- Extra pulse/missing pulse allows the technician to target signals with repetitive signals where signal amplitudes are the same. Example: Hall Effect crankshaft/camshaft position signals
- Time/angle domain allows the user to see a full 360 or 720 degrees of crankshaft rotation for complex camshaft to crankshaft alignment tests. (Variable cam timing systems)



Drag and Drop Signal Positioning

- Allows the user the ability to shift the signal vertical offset/position on the screen by simply dragging the screen channel ID with a mouse, touchpad or touchscreen!



Oscilloscope Data Recordings

- Allows the user to review intermittent signals without the need to setup complex triggers
- Recordings are displayed in frames to allow the user to take a quick glimpse of data before attempting to manipulate the images
- Areas of recorded signals in question can be zoomed
- Recordings can be saved and forwarded to engineering for analysis assistance

4-Channel Digital Multi-Meter



Two Channel Graphing Digital Multimeter

- Monitor up to four independent readings at the same time. Measurements can be a combination of any of the following:
 - DC or AC voltage
 - Resistance
 - Continuity
 - Pulse width
 - Frequency
 - Period
- DC current
- AC current
- Pressure
- Temperature
- Graphing DVOM for up to two channels simultaneously
- Capture/record history. Long duration recording capability for overnight or multi-day data logging

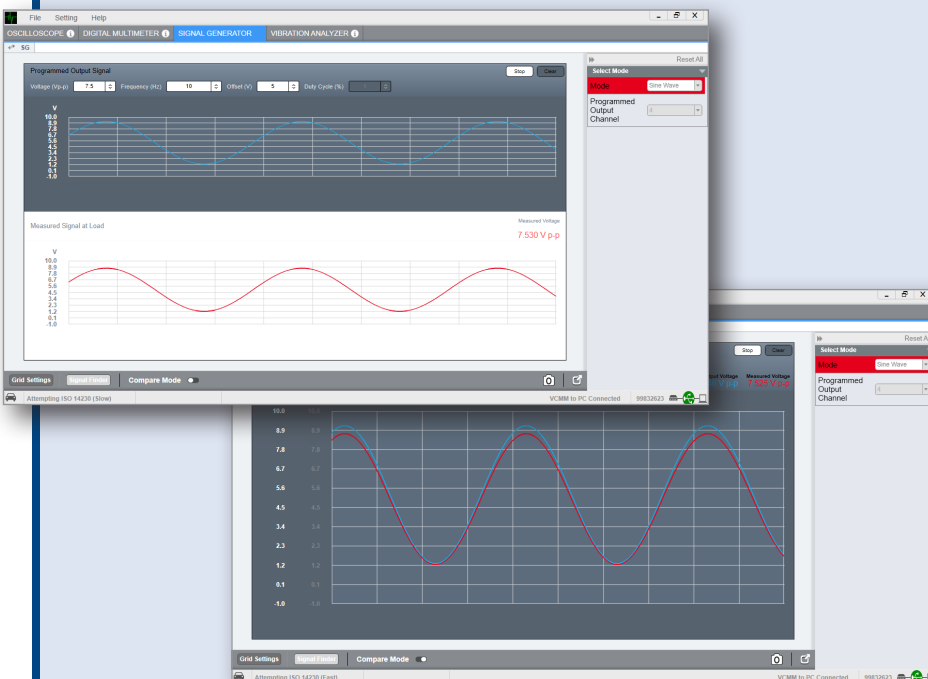
Integrated Vibration Analysis Software!!

- Similar functionality to the MTS 4000/4100 (Principle component display, system bar graph and waterfall display)
- Improved user interface
- Vibration data recording capability
- “NVH Timing Light Inductive Loop” for improved component identification
- Optional second vibration transducer/sensor*
- Optional dual plane driveline balance*

*Requires Advanced Kit



Signal Generator



- User configurable settings for signal waveform type, voltage level and frequency. Waveform types include:
 - Sine wave*
 - Square wave*
 - Triangle wave*
 - Pulse generator*
 - DC voltage*
 - Arbitrary* (future functionality)
- Greater signal adjustability and flexibility when compared to VMM hardware
- Verify the integrity of a vehicle system's input wiring and module's internal measurement capability
- Signal generator displays desired signal as well as actual signal output

*Allows the user to see if signal output is being overloaded or is overlapping another vehicle signal.

VCMM® Provides Better Organization!!!

Find What You Need, When You Need It!

Carrying Case

- Twelve hook and loop lead partitions for organizing and easy access of measurement leads!
- Four zippered compartments for storage of wiring probe ends
- Vented/protected fuel adaptor storage compartments
- Shoulder carry strap for easier transport
- Detachable compartments for taking certain components in protected casings without the need to take the entire kit

Measurement Lead Probes

- Probes are stored in three re-sealable plastic containers for easy access
- Pencil leads for conventional DVOM testing
- Two sizes of alligator clips
- Assortment of terminal flex probes
- Four flexible universal probes



VCMM® KIT ITEMS LIST AND PRICING

ITEM	BASE KIT	ADVANCED KIT	ADVANCED KIT WITH PANASONIC CF-54
VCMM Unit	X	X	X
Wireless Communications with Host (2 ea. WiFi Adapters)	X	X	X
DLC Cable	X	X	X
USB Cable	X	X	X
Storage Case	X	X	X
External Power Cable (Battery)	X	X	X
USB Drive with Quick Start Guide	X	X	X
Test Lead: Red	X	X	X
Test Lead: Blue	X	X	X
Test Lead: Yellow	X	X	X
Test Lead: Green	X	X	X
Kit of All Probe Tips and Alligator Clips Probe Tips: Red, Blue, Yellow, Green, Black Alligator Clips: Small Red, Small Blue, Small Yellow, Small Green, Small Black (4), Large Black (2)	X	X	X
Universal Probe Tip Adapter (Set of 4)	X	X	X
Low Current Probe	X	X	X
High Current Probe	X	X	X
Pressure Vacuum Transducer (PVT)	X	X	X
Fuel Hose Assembly	X	X	X
Transmission Extension Hose	X	X	X
Red Probe with Tick	X	X	X
Probe Tip Adapters (Set of 19)	X	X	X
Temperature Probe	X	X	X
Vibration Analyzer Accelerometer "A"	X	X	X
NVH Timing Light Inductive Loop	X	X	X
AC/DC Power Supply	X	X	X
Secondary Ignition Transducer Cables (Set of 4)		X	X
Coil-On Plug Ignition Transducer Clips (Set of 4)		X	X
Secondary Ignition Transducer Probes (Set of 4)		X	X
Vibration Analyzer Accelerometer "B"		X	X
Driveline Balance Kit		X	X
Panasonic CF-54			X

VCMM®
Base Kit

Item #164-R9822

NEW!

VCMM®
Advanced Kit

Item #164-R9823

NEW!

VCMM®
Advanced Kit With
Panasonic
CF-54

Item #164-R9824



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