

Product Name: Vehicle Operation & Health Monitoring System (VOMS)



PRODUCT DESCRIPTION. The MoTeC VOMS provides a very compact, highly configurable, cost effective modular solution for vehicle/platform operation and health monitoring (HUMS). The VOMS is available as a 'black box' data acquisition & logging system, or as a combined digital display logging system. VOMS provides a key component in increasing the reliability and sustainability of vehicle/ platform fleets by providing critical management and decision making data & information. VOMS use contributes to optimising the logistics "tail" or "footprint" through predictive logistics and Condition Based Maintenance. VOMS can also contribute to reduced platform consumption, reduced fuel usage, and more effective vehicle/ platform operation. The VOMS (ADL) has a high contrast (full sun readable) monochrome screen with variable intensity backlighting.

APPLICATION & BENEFITS. VOMS can be used for vehicle operation and usage monitoring, fleet management, driver training/monitoring; and to enhance in-vehicle operation & capability through more effective information display & warnings (use of WLM), also contributing to improving situational awareness. With appropriate sensors VOMS can also be utilised as an on-vehicle 'blast gauge' monitoring vehicle hull integrity post multiple blast exposures. With appropriate sensors, VOMS functionality could also be extended to monitoring crew vital signs & performance. Operationally VOMS can provide vehicle 'combat status' (mobility & weapons) data/information to Battle Management Systems.

PRODUCT STATUS. The MoTeC VOMS (EDL/VDMS) is a current in production MOTS component currently fitted to Australian DoD in-service vehicles. The MoTeC VOMS (ADL) is a current in production COTS product in extensive use in demanding environments and motorsport applications, enabling improved performance of vehicles and drivers. The VOMS (ADL) uses the same board technology as used in the VOMS (EDL/VDMS) in a different case to allow integration of the digital display.

The MoTeC VOMS systems are in-house designed products and could be further customised if required to meet specific platform operation and fleet management requirements.

PRODUCT INFORMATION. The VOMS has the following key characteristics:

- All functional configuration of the VOMS is done in software using the DASH Manger software provided, and includes use of simple & complex maths functions to enable on-vehicle data processing, including fuel usage, with fully customisable options on what to display (VOMS-ADL).
- Primarily a logging device, VOMS has up to 8 output channels, which can be conditionally programmed to activate/drive devices, including warning lights, audio warnings, relays, actuators, etc. ...
- Multiple VOMS can be connected using CAN BUS for more complex requirements, including CAN enabled sensor expansion modules.
- VOMS accesses data through connection to vehicle CAN BUS(es) and/or directly to any type of sensor.
- VOMS (EDL) - Size: 195x98x15 mm (7.7x3.9x0.59 ins) Weight: 420 g (0.93 lbs) – VOMS (ADL) has similar dimensional characteristics.

VOMS (EDL)



Warning Lights Module (WLM)

VOMS (ADL)



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MoTeC is able to provide local USA in-country support for all its products.