

## Platform Condition Monitoring Unit

The Greeve Platform Condition Monitoring Unit (CMU) is an affordable embedded data logging system that monitors and records the status and operation of mobile platforms. It provides the functionality of a military HUMS (Health and Usage Monitoring System) for military vehicles and other land assets but is equally useful on commercial platforms and even remote fixed installations.

The unit interfaces to on-platform data sources and discrete sensors to measure the conditions of operation, the limits of performance parameters, and the usage history.

Typical interfaces may include CAN bus monitoring to record data (J1932 and others) and discrete analogue and digital sensors such as switch states, temperatures and pressures. Depending on the platform, CAN bus includes such data as fuel demand, engine temperature, boost pressure, vehicle speed etc.

The CMU can also be used to monitor battery condition and provide battery management functions including split-charge control.

Data is stored on internal memory or removable Flash media and can be recovered by changing the Flash device or downloading the data via the USB interface or optionally Ethernet, GSM or WiFi. The CMU can be interfaced to a PC (such as the Greeve Platform PC) to display live data.

The CMU is designed to operate in the harshest environments and reliably record the platform condition over long periods of time.

### Expansion:

As well as the option detailed here, the CMU is fully compatible with the Greeve Networked Power Control System and can interface directly with the Greeve Remote Interface Nodes (RINs) to expand digital and analogue sensing and power switching.

### Bespoke Development:

Greeve can provide systems to meet exact requirements. In addition, the CMU can be provided as a customer programmable device; please enquire for details.



### Standard Features:

- Environmental protection – IP67
- Shock – 50g all axis
- Operational temperature – -20°C to 70°C
- CAN II interface
- USB 2.0
- Dimensions 135 x 135 x 55mm (main body)
- Power – 9 to 18v DC (24 to 36v option)

### Options:

- Alternative CAN interfaces
- 6 channels of 0 to 10v analogue input
- 8 channels of switched input
- Frequency/pulse measurement
- 3 axis motion monitoring
- 6 channels switched/alarm output (4A max/ch)
- Removable data storage – SD Flash, to 4 Gb
- Ethernet interface
- GPS interface
- GSM interface
- Military Connectors
- Extended temperature range

### Software:

The CMU is provided with a PC software application that enables the unit to be configured for the platform. The configuration includes the data rate and logging strategy.

### Pricing:

The CMU starts at £250 (250 pounds sterling). Please enquire for options pricing.

### Designed to meet:

Def Stan 00-35 – environmental  
Directive 2004/104/EC – automotive EMC

E&OE - Pricing subject to quotation