

## Battery Monitoring & Management System

The Greeve Battery Monitoring and Management System is a range of affordable components that enable the monitoring and management of battery systems, whether in a vehicle or as part of a backup power system. They range from simple charge and drain voltage displays to full battery charge, health, and load management.

Batteries are a vital component in mobile platforms, remote installations, and backup power supplies and yet they are often abused through misuse, poor charging, deep discharge, and overloading. For some important installations this means that batteries are swapped out unnecessarily in case they are decaying and in other applications it means that the systems fail when demand is placed on them because there has been no warning of degradation.

Greeve's Battery Monitoring and Management System (BMMS) can be scaled to suit the application and budget. From the simple single or dual channel battery voltage display to the full networked Battery and Power Management system. The networked system uses Remote Interface Nodes (RINs) to measure the battery parameters and relay them back to the BMS via a CAN network. The BMS is programmed to monitor, log, alarm, and display the data depending on the application. Each RIN can interface to two separate batteries. The standard basic parameters include cell temperature and voltage; options include current and impedance.

The BMS can be used to drive displays and alarms directly or send data to other platform subsystems. Data can be logged to internal memory and downloaded or, optionally, to removable FLASH memory, to record usage history. Options are available for Ethernet and WiFi data access.

### Expansion:

The BMS is fully compatible with the Greeve Networked Power Control System and can be integrated with other Greeve products to build a complete power management and monitoring system including battery charge management.

### Bespoke Development:

Greeve can provide systems to meet exact requirements; please enquire for details.

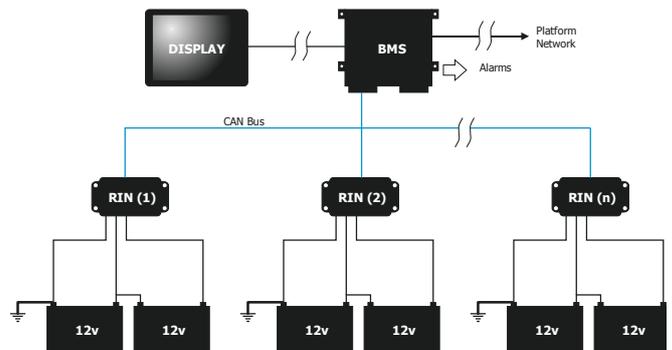


### Standard Features:

- Environmental protection: IP67
- Shock: 50g all axis
- Operational temperature: -30°C to 80°C
- CAN II interface
- USB 2.0
- Switched/alarm outputs 4A max/ch

### Options:

- Ethernet interface
- WiFi interface
- Military Connectors
- Current sensing
- Impedance measurement



Example Networked Monitoring System

E&OE - Pricing subject to quotation