



# Data Logging Display Module

The CAN Data Logger and Display module for the Orion BMS / Orion Jr. BMS (CAN version only) provides visual feedback of the essential information on a battery pack as well as data logging capabilities for diagnostics. This display and logging combo connects to an Orion BMS unit via CAN (Controller Area Network) and logs user-selected data to a memory card while displaying State of Charge, Power Limited (reduced output power), and the Malfunction Indicator Status (error indicator).

## Product Specifications

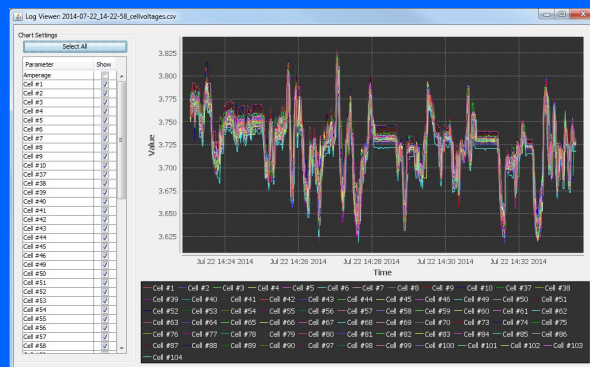
- Operates with the Orion BMS and Orion Jr. BMS (CAN version only) from Ewert Energy Systems (BMS sold separately)
- Full automotive operating temperature range (-40C to 80C)
- Logs to memory card at user selectable sampling rate
- Able to log individual cell voltages in addition to overall BMS parameters
- Compact size and shape
- Connects to the Orion BMS via CAN (no analog connections)
- External "event trigger" input which can flag events for future review
- Log graphing and analysis software
- Real time clock to store data and time of each charge / discharge cycle
- Supports CAN frequencies of 125, 250, 500Kbps, and 1 Mbps
- User customizable logging frequency from 100mS to 10 seconds
- Compatible with micro SD memory cards up to 32GB

## Physical Specifications

- Dimensions: 2.7 in (6.9 cm) W x 1.9 in (5.0 cm) L x 0.78 in (2.0 cm) H
- Product weight: 1.7 oz
- Connector: Molex part number 0050579406
- Supply voltage: 10-16 Vdc
- Supply current: 65 mA at 12 Vdc (with all LEDs on)

The Data Logging Display Module is a product of Ewert Energy Systems, Inc.

Ewert Energy Systems is a research and development company focused on developing solutions for plug-in hybrid and electric vehicles and other energy storage applications.



 The screenshot shows a 'Chart Data Logfiles' window. It contains a table of log files with columns for Filename, Log Date, Size, and Log Type. The table lists several log files, including 526.odl, 525.odl, 524.odl, 523.odl, 522.odl, 521.odl, 520.odl, 519.odl, 518.odl, and 517.odl, with their respective dates, sizes, and types (DISCHARGE or CHARGE).

Filename	Log Date	Size	Log Type
526.odl	Jul 23 20:47 2014	71.4 KB	DISCHARGE
525.odl	Jul 23 15:00 2014	4633.7 KB	CHARGE
524.odl	Jul 22 16:11 2014	2303.1 KB	CHARGE
523.odl	Jul 22 15:20 2014	0.7 KB	DISCHARGE
522.odl	Jul 22 15:05 2014	184.6 KB	DISCHARGE
521.odl	Jul 22 14:47 2014	32.1 KB	DISCHARGE
520.odl	Jul 22 14:22 2014	401.3 KB	DISCHARGE
519.odl	Jul 22 14:04 2014	296.5 KB	DISCHARGE
518.odl	Jul 22 14:02 2014	8.4 KB	DISCHARGE
517.odl	Jul 22 14:02 2014	2.1 KB	DISCHARGE

Screen shots of the data logging display module utility

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