

BDL-Series Battery Data Loggers

Model # BDL-Series



BDL-Series Kit

Product Overview

The **BDL-Series Battery Data Logging Kits** are designed for battery data logging of cell voltage, string voltage, DC current, and ambient temperature of battery systems under discharge or recharge. The modular design of the BDL-Series allows the units to be customized for use on wide variety of battery systems ranging from 12V to 800V. Each BDL-Kit consists of Data Acquisition Cases (DAC's) which are used to gather measurement data from the battery system. A "String DAC" is used to measure total voltage, DC current (with fitted CT clamp), and ambient temperature. Cell DAC's are used to measure the voltage of each individual battery cell – one Cell DAC connects to (4) or (12) battery cells, depending on cell type. DAC's communicate wirelessly to a com module that connects directly to the PC, communicating all measured data into the included DataView Management software. String voltage, cell voltage, discharge current, and temperature data can be analyzed and generated into Microsoft Excel reports.

Features

- Simultaneously monitor cell voltage, string voltage, DC current, and ambient temperature
- Modular DAC design for easy installation and operation
- Tests 1.2V, 2V, 6V, and 12V Batteries
- Magnetic contact points for mounting to battery or rack
- Directly powered by battery, no need for extra power supply
- Wireless communication between battery string and Data Logger Software for data management and report generation

Technical Specifications

Measurement Range:	Cell Voltage: 1 – 16 VDC String Voltage: 12 – 800 VDC Current: 0 – 1000 A Temperature Measurement: -25 – 55 °C (-13 – 131 °F)
Accuracy:	Cell Voltage: ±0.5% String Voltage: ±0.5% Current: ±1% Temperature: ±1 °C (±1 °F)
Sampling Interval:	2 seconds to 50 seconds
Data Transfer:	DAC to COM Terminal: Wireless 433 MHz COM Terminal to PC via RS-232-to-USB
Communication:	Distance: 100 m (323 ft) between DAC and Comm. Module
Power Requirements:	DAC: 8 VDC (from connected batteries)
Operating Environment:	Temperature: 0 – 55 °C (32 – 131 °F) Relative Humidity: 85%
Dimensions¹:	Per DAC: 121 x 113 x 40 mm (4.75 x 4.5 x 1.6 in)
Weight¹:	Per DAC: 150 g (5.3 oz)

(1) Size & Weight of DAC kit depends on number of DAC's.



DAC (Data Acquisition Case)

Kit Includes

- Cell DAC (quantity of DAC's based on system voltage)
- String DAC
- PC Comm. Terminal
- Fitted CT Clamp
- RS232-USB Adapter
- Battery Data Logger Software
- Carrying Case
- User Manual

Ordering Information

No.	Model #	Description
1	BDL-Series	Battery Data Logging Kits Range: 12-800V, 0-1000A