

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 450V. 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. DAC's communicate wirelessly to a module that connects directly to the PC, communicating all measured data into the included Battery Data Logger Management Software. Recorded data can be analyzed and generated into 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: 0 – 16 VDC String Voltage: 0 – 450 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: USB
Protection Class:	Temperature: 0 – 55 °C (32 – 131 °F) Relative Humidity: 85%
Communication:	Distance: 100 m (323 ft) between DAC and Comm. Module
Power Requirements:	DAC: 9 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: 12-450V, 0-1000A