



BDL-Series Battery Data Loggers



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, recharge, or float charge. 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 string 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 voltage. DAC's communicate wirelessly to a COM terminal that connects directly to the PC. Included DataView Management Software allows realtime data analysis and exporting of data to Excel.

Features

- Simultaneously monitor: cell voltage, string voltage, DC current, and ambient temperature
- Modular DAC design for easy installation and operation
- 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 DataView Management 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 Temp. 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 15 seconds
Data Transfer:	DAC to Com Terminal: Wireless 433 MHz COM Terminal to PC via RS-232-to-USB
Communication:	50 m (164 ft) unobstructed between DAC and COM Terminal
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 Cas)

Kit Includes

- Cell DAC (quantity of DAC's based on system voltage)
- String DAC
- COM Terminal
- RS232-USB Adapter
- Fitted CT Clamp
- DataView Management Software
- Carrying Case
- User Manual

Ordering Information

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