

DATA LOGGERS

TWO-CHANNEL DC VOLTAGE, CURRENT, PULSE & EVENT



with
terminals

MODEL L452

Bluetooth®-enabled logger and event counter that records DC voltage, DC current, (4 to 20) mA or pulse counts



Real-time display!

Powered by batteries or through a USB



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MODEL	L452			
ELECTRICAL				
Channels	Two*			
Input	Six-pin terminal strip			
Measurements	DC Current	DC Voltage	Event	Pulse
Range	(4 to 20) mA	100 mV, 1 V, 10 V	N / A	
Accuracy (% of Reading)	± (0.25 % + 5 ct)	± (0.5 % + 1 ct)	N / A	
Resolution	0.01 mA	0.1 mV, 1 mV, 10 mV	N / A	
Input Impedance	100 Ω	1 MΩ		N / A
Sample Rate	5 samples / s		16 samples / s	100 samples / s
Storage Rate	DC inputs: (200, 400, 600, or 800) ms; or from (1 to 60) s Pulse detection: 10 ms			
Storage Modes	Start / Stop <i>(ends when memory is full or when the recording stop time is reached, whichever comes first)</i>			
Recording Length	10 min to 1 year, selectable set via instrument front panel or through DataView®			
Memory	32 MB internal Flash memory <i>(up to 1024 logging sessions, 16 M samples)</i>			
Communication	Bluetooth® 2.1, Class 1 or USB 2.0			
Power Supply	External: via USB connector Internal: (2) AA NiMH rechargeable batteries <i>(charges through USB port)</i>			
Battery Life	Up to 180 d <i>(dependent on storage rate / recording length)</i>			
MECHANICAL				
Dimensions	(1.28 x 2.58 x 5.4) in (32 x 65 x 137) mm			
Weight <i>(with battery)</i>	6.7 oz (190 g) with batteries			
Vibration	IEC 60068-2-6 (1.5 mm, (10 to 55) Hz)			
Shock	IEC 60068-2-27 (30 G)			
ENVIRONMENTAL				
Operating Temperature	(32 to 122) °F (0 to 50) °C			
Humidity	(16 to 85) %			
Ingress Protection	IP40 <i>(instrument alone)</i> ; IP20 <i>(instrument with terminal strip)</i>			

*Both channels must have the same input type.
Consult factory for NIST Calibration prices.

DATA LOGGERS

TWO-CHANNEL DC VOLTAGE, CURRENT, PULSE & EVENT

FEATURES

- Multiple data input types. The L452 can log DC voltage (up to +/- 10 V), DC current, (4 to 20 mA), pulse counts, or events. Measurements can be performed directly on the instrument, or through a variety of sensors. This data is stored in the instrument's large 32 MB internal Flash memory.
- Expanded user interface. You can set up the instrument and view real-time measurement data through the front panel LCD screen and input buttons. The L452 features an onboard menu-based interface for navigating measurement data and selecting configuration options.
- Enhanced DataView® support. The instrument connects to a PC using either Bluetooth® or USB. Once connected, logged data can be downloaded, analyzed, and formatted into reports using the DataView® Data Logger Control Panel. This Control Panel also enables users to change settings on the instrument, view real-time measurements, schedule recording sessions, and perform other configuration tasks.

PRODUCT INCLUDES

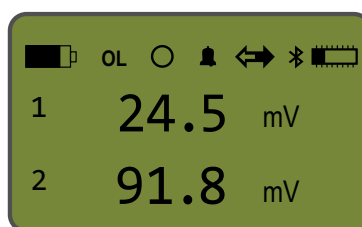
6 ft USB cable, US 120 V wall-to-USB plug, 6-pin screw terminal block, (2) AA rechargeable NiMH batteries, a printed quick start guide, a USB drive containing DataView® software and user manual.



FRONT PANEL & FUNCTIONAL DISPLAYS

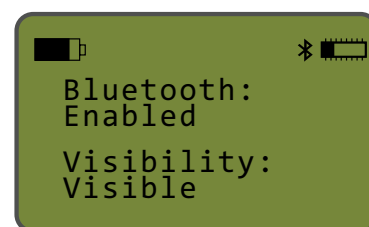


INSTRUMENT CONFIGURATION



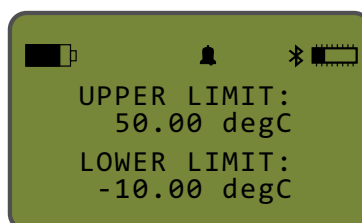
Instrument configuration parameters can be set through the front panel interface.

BLUETOOTH® ENABLED/VISIBILITY



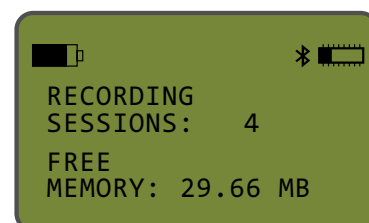
Enable and configure Bluetooth® functionality.

ALARM TRIGGERS



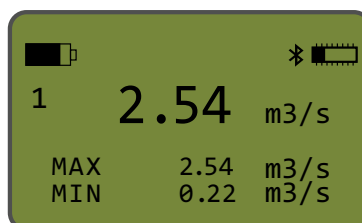
Allows you to set the upper and/or lower alarm trigger limits.

RECORDING SESSION



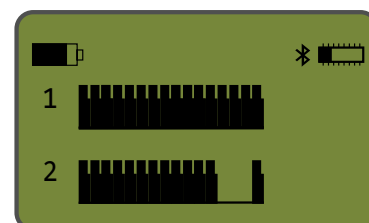
Displays the number of recording sessions currently stored in memory. It also shows the amount of free memory left for storing additional recording sessions.

MIN/MAX MEASUREMENTS



For analog input types, this screen displays the session's MIN/MAX measurement values for each channel.

EVENT MEASUREMENT DATA



For event input, the Channels 1 & 2 measurement graphic data screen appears.

CAT. # DESCRIPTION

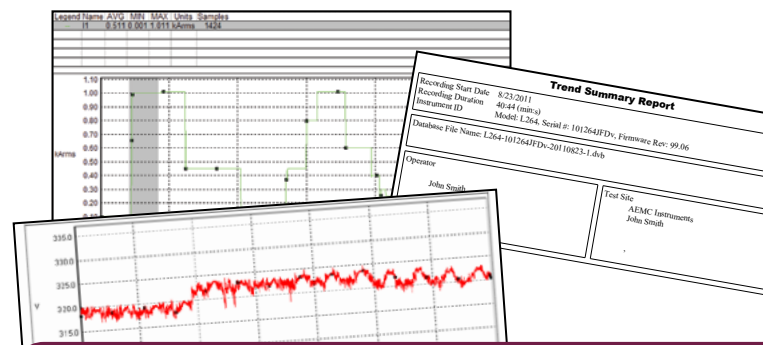
2153.51	Data Logger Model L452 (2-Channel, w/LCD, 100 mV/1 V/10 V _{DC} , (4 to 20) mA _{DC} , Event & Pulse, DataView® Software)
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DataView® Data Analysis and Reporting Software



DataView® software, user manual and quick start guide are included in the USB Drive

- Display and analyze real-time data on your PC
- Configure all data logger functions and parameters from your PC including sample rate, communication, recording length, channel configuration and more
- Create and store a library of configurations that can be uploaded to the logger as needed
- Pan and zoom through sections of the graph to analyze the data
- Display trend graphs and text summaries
- Print reports using standard or custom templates
- Free software upgrades are available on our website www.aemc.com



Reports can be displayed on a PC and printed. Each report includes all test results in a tabular and graphic format, as well as operator and test site information. Comments typed by the operator will also be included.

The image shows the 'Communication' tab of the DataView software. It includes sections for 'Wifi' (with 'Enable Wifi' checked, 'Mode' set to 'Wifi access point', and 'Port' set to '3041'), 'Wifi access point settings' (with SSID 'DL913-15457SWED', Password, and Authentication set to 'Open'), 'Wifi router settings' (with 'Enable DHCP' checked, IP address, Gateway address, Subnet mask, and SSID/Password fields), and 'IRD Server' (with 'Enable' checked and 'IRD server URL' set to 'www.ca-ird.com').

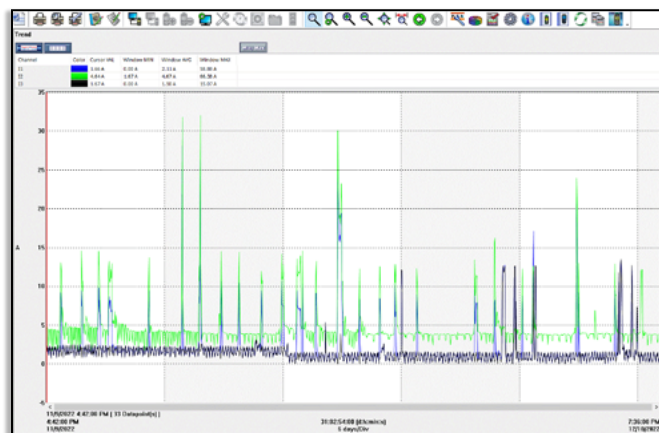
Configuring the data logger's general communication, recording, and instrument options is simple with the DataView® control panel software.

The top left image represents the communication configuration tab with Wi-Fi enabled.

The recording tab provides sample and storage rate selections, recording length and schedule, session type, and the extended recording mode option.

The image shows the 'Recording' tab of the DataView software. It includes fields for 'Session name' (Distribution Panel) and 'Location' (Warehouse). Under 'Session type', 'Record now' is unchecked and 'Schedule recording' is checked. 'Start date' is 12/11/2022, 'Start time' is 2:30 AM, 'End date' is 1/10/2023, and 'End time' is 2:30 AM. 'Recording duration' is 030:00:00 and 'Aggregation period' is 1 min. A checkbox for 'Enable extended recording mode' is present. A 'Memory' section shows '0.22% of the memory has been used' and '7.50 Gbytes of available memory'. At the bottom are 'Read', 'Save', and 'Load' buttons.

Create, view, edit and store reports from the instrument's recorded data with the included DataView® software.



One month split-phase trend monitoring.