DATA LOGGERS
TWO-CHANNEL DC VOLTAGE, CURRENT, PULSE & EVENT

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

IP 20 with terminals

AUTOMATIC REPORT GENERATION

DataView®

SPECIFICATIONS

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
Sample Period	DC inputs: 200, 400, 600, or 800 ms; or from 1 to 60 s Pulse detection: 10 ms			
Storage Modes	Start/Stop (ends when memory is full or when the recording stop time is reached, whichever comes first)			
Recording Length	10 min to 1 y, set via instrument front panel or through DataView®			
Memory	32 MB internal Flash memory (up to 1024 logging sessions, 16 M samples)			
Communication	Bluetooth 2.1, Class 1 or USB 2.0			
Power Supply	External: via USB connector Internal: (2) AA NiMH rechargeable batteries (charges through USB port)			
Battery Life	Up to 180 d (dependent on storage rate/recording length)			
MECHANICAL				
Dimensions	(1.28 x 2.58 x 5.4) in (32 x 65 x 137) mm			
Weight (with battery)	6.7 oz (190 g) with batteries			
Vibration	IEC 68-2-6 (1.5 mm, (10 to 55) Hz)			
Shock	IEC 68-2-27 (30 G)			
ENVIRONMENTAL				
Operating Temperature	(32 to 122) °F (0 to 50) °C			
Humidity	(16 to 85) %			
Ingress Protection	IP40 (instrument alone); IP20 (instrument with terminal strip)			

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

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.

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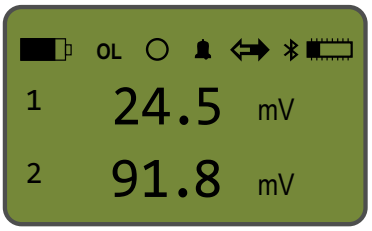
FEATURES

- Multiple data input types. The L452 can log DC voltage, DC current, 4 mA 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 on-board 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.

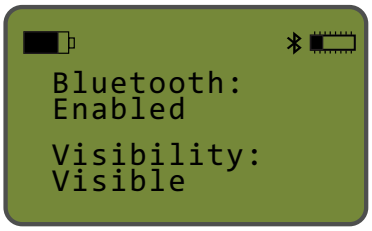
FRONT PANEL & FUNCTIONAL DISPLAYS

INSTRUMENT CONFIGURATION



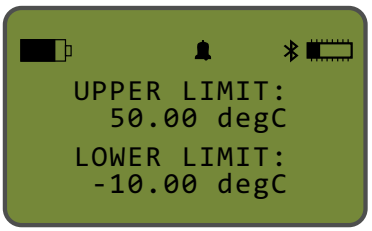
Instrument configuration parameters can be set through the front panel interface.

BLUETOOTH ENABLED/VISIBILITY



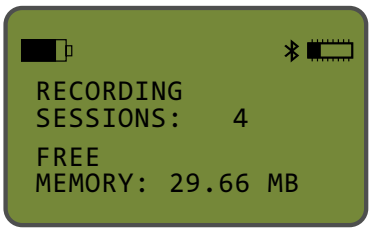
Enable and configure Bluetooth's functionality.

ALARM TRIGGERS



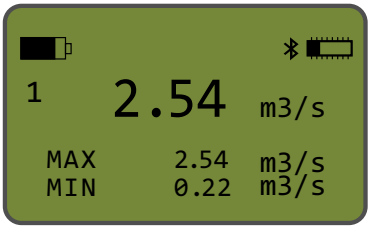
Allows you to set the upper and/or lower alarm trigger limits.

RECORDING SESSION



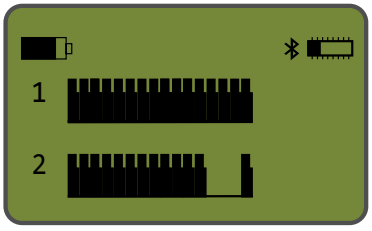
Displays the number of recording sessions currently stored in memory. It also shows the amount of free memory left for storing additional recording sessions.

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.

CATALOG NO.	DESCRIPTION
2153.51	Data Logger Model L452 (2-Channel, w/LCD, 100 mV/1 V/10 VDC, (4 to 20) mADC, Event & Pulse, DataView® Software)

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