

# DATA LOGGERS

## AC/DC VOLTAGE LOGGER



### MODEL L461

*Designed for accurate voltage monitoring in electrical distribution and solar PV systems*



**DataView®**  
**DataViewSync™**



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### FEATURES

- **Dual-purpose:** measures both AC and DC voltage for modern electrical systems
- **Application-ready:** ideal for solar PV systems and electrical distribution monitoring
- **Accurate:** True RMS measurement ensures dependable voltage readings
- **Informative:** real-time and maximum values displayed on backlit LCD, **1 s trends** available through control panel software
- **Wide-range:** from (10 to 1200) V<sub>AC</sub> and (10 to 1700) V<sub>DC</sub>
- **Convenient:** Wi-Fi and USB connectivity for remote access and configuration
- **Efficient:** extended recording mode supports long-term voltage studies
- **Flexible operation:** start and stop recordings from the instrument display, control panel, or remote user interface on a mobile device
- **Long-lasting:** continuous USB power eliminates battery life limitations for uninterrupted long-term monitoring
- **Flexible:** configurable aggregation periods to match application needs
- **Dependable:** onboard memory stores up to 200 recording sessions

MODELS	L461
<b>ELECTRICAL</b>	
Measurement Type	AC/DC Voltage
Channels	1
AC Voltage Range	(10 to 1200) V
DC Voltage Range	(10 to 1700) V
Frequency Range	(45 to 65) Hz
Accuracy	± (1% R + 5 cts typical)
<b>GENERAL</b>	
Power Supply	(3) AA batteries or USB
Battery Life	Up to 3 days
<b>RECORDING</b>	
Normal Mode	3 days
Extended Mode	Up to 10 weeks (15 min aggregation period)
<b>DATA STORAGE &amp; REPORTING</b>	
Recording Sessions	Up to 200
Storage	8 GB micro SD (Internal)
Aggregation Intervals	(1 to 60) min, 1 s trends
Data Interface	USB, Wi-Fi and Web server
Software	DataView® and DataViewSync™
<b>MECHANICAL &amp; ENVIRONMENTAL</b>	
Mounting	Magnetic
IP Rating	IP 54
CAT Rating	1000 V CAT IV, 1500 V <sub>DC</sub> CAT III

Consult factory for NIST Calibration prices.

### APPLICATIONS

- Solar PV system monitoring
- Voltage trend analysis
- Outlet level troubleshooting
- Distribution panel monitoring

### PRODUCT INCLUDES

Includes USB to micro USB cable, US wall plug to USB adapter, Set of 2, 10 ft (3 m) color-coded ST/ST leads, (2) color-coded alligator clips (red/black), (3) AA alkaline batteries, quick start guide, USB drive with DataView® software and user manual.



#### CAT. # DESCRIPTION

2153.54 Data Logger Model L461 (1-CH, TRMS, w/LCD, 1200 V<sub>AC</sub>/1700 V<sub>DC</sub>, DataView® software, voltage input for solar panels)

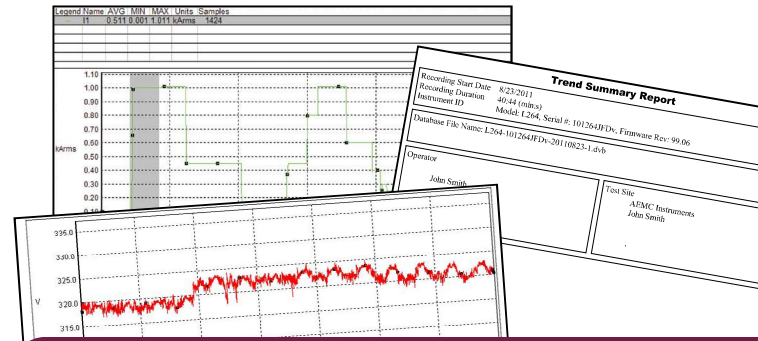


## DataView® Data Analysis and Reporting Software

- 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](http://www.aemc.com)



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



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.

This screenshot shows the 'Communication' tab in the DataView software. The 'WiFi' section is active, with 'Enable WiFi' checked. The 'Mode' is set to 'WiFi access point', and the 'Port' is 3041. The 'WiFi access point settings' include SSID: DL913-154575VED, Password: (8 to 64 ASCII characters), and Authentication: Open. The 'WiFi router settings' include 'Enable DHCP' checked, IP address: 0.0.0.0, Gateway address: 0.0.0.0, and Subnet mask: 0.0.0.0. The 'IRD Server' section has 'Enable' checked and the URL set to www.ca-ird.com.

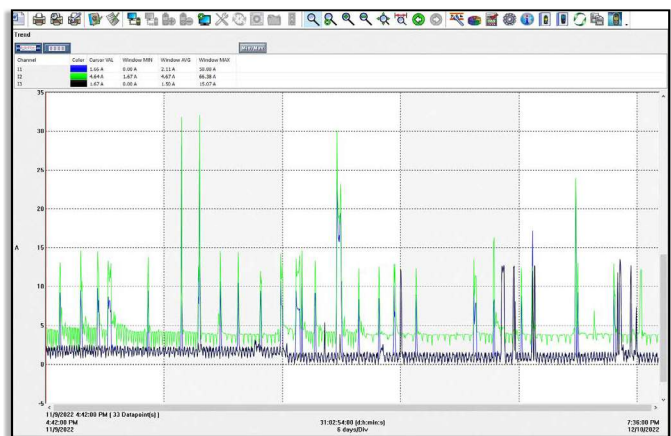
Configuring the data logger's general communication, recording, and instrument options is simple with the DataView® control panel software.

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.

This screenshot shows the 'Recording' tab in the DataView software. The 'Session name' is 'Distribution Panel' and the 'Location' is 'Warehouse'. The 'Session type' is 'Schedule recording'. The recording schedule is set from 12/11/2022 to 1/10/2023, from 2:30 AM to 2:30 AM. The recording duration is 0:30:00:00 (D:H:M) and the aggregation period is 1 min. The 'Memory' section shows that 0.22% of memory has been used and 1.74% is needed by the current recording settings.

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



One month split-phase trend monitoring.