

Supco LCV

Supco LCV LOGiT Current and Voltage Data Logger User Manual

Model: LCV

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1. PRODUCT OVERVIEW

The Supco LCV LOGiT Data Logger is a precision instrument designed for recording AC current and AC voltage. It is utilized for monitoring power conditions, compressor and fan run cycles, and can be used in single-phase or three-phase applications (with three LCV units). The device samples AC current using a supplied clamp probe and stores data points for analysis.



Image 1.1: Supco LCV LOGiT Data Logger kit, including the main logger unit, AC current clamp probe, connection cables, and a protective carrying case.

2. SETUP AND INITIAL CONFIGURATION

2.1. Battery Installation

The LCV data logger requires one 9V battery for operation. Use either an alkaline or lithium battery. Lithium batteries offer extended battery life.

1. Locate the battery compartment on the back of the LCV unit.
2. Open the compartment cover.
3. Insert a new 9V battery, ensuring correct polarity.
4. Securely close the battery compartment cover.

2.2. Connecting the Clamp Probe

The supplied clamp probe is factory calibrated specifically for your LCV unit and is not interchangeable with other units. Connect the clamp probe to the designated input port on the LCV data logger.

2.3. Software Installation and Configuration

To configure the data logger, set sample rates, and retrieve data, dedicated software is required. Refer to the software's installation guide for detailed instructions. The software also allows for single-point offset calibration for current and voltage measurements.

3. OPERATION

3.1. Data Logging Modes

The LCV data logger can record AC current, AC voltage, or both simultaneously. The sample point capacity varies based on the selected mode:

- **Current Only or Voltage Only:** Up to 21,500 data points.
- **Current and Voltage (Simultaneous):** Up to 10,750 data points.

3.2. Setting Sample Rate

The sample rate can be configured via the software, ranging from 1 second to 18 hours. Select a sample rate appropriate for your monitoring duration and desired data granularity.

3.3. Alarm Configuration

The LCV features over and under alarms for both current and voltage. These alarms can be set through the software. A visual alarm indication is provided on the unit when an alarm threshold is exceeded.

3.4. Data Retrieval

After logging is complete, connect the LCV data logger to a computer using the appropriate cable (sold separately) and use the dedicated software to download and analyze the recorded data.

4. MAINTENANCE

4.1. Battery Replacement

Replace the 9V battery when the low battery indicator appears or when the unit is not functioning correctly. Average battery life is approximately 20 months with an alkaline battery and 40 months with a lithium battery.

4.2. Cleaning

Wipe the exterior of the data logger with a soft, dry cloth. Do not use abrasive cleaners or solvents. Ensure the unit is dry before storage or operation.

4.3. Calibration

The current and voltage measurements are factory calibrated. A single-point offset calibration is available through the software for fine-tuning if necessary.

5. TROUBLESHOOTING

- **Unit does not power on:** Check battery installation and ensure the battery has sufficient charge. Replace the 9V battery if needed.
- **No data recorded:** Verify that the logger is properly configured via the software, the sample rate is set, and logging has been initiated. Ensure the clamp probe is correctly connected and clamped around the conductor.

- **Incorrect readings:** Confirm that the clamp probe is securely connected and that the correct measurement range is selected in the software. Remember that the clamp probe is factory calibrated to the specific unit and not interchangeable.
- **Cannot connect to computer/retrieve data:** Ensure the correct communication cable (often sold separately) is used and properly connected. Verify that the software is installed correctly and drivers are up to date.

6. SPECIFICATIONS

Feature	Detail
Model Number	LCV
Sample Point Capacity	21,500 (Current or Voltage only), 10,750 (Current and Voltage)
Sample Rate	1 second to 18 hours
Alarms	Over and under alarms for current and voltage with visual indication
Current Range	0 to 300 Amps AC
Current Accuracy	+/- 5%
Current Resolution	0.1 Amp AC
Voltage Range	0 to 500 Volts AC
Voltage Accuracy	+/- 1 V AC
Voltage Resolution	0.1 VAC
Time Accuracy	+/- 100ppm at 75°F
Operating Temperature	32 to 140°F (0 to 60°C) with alkaline battery; -40 to 150°F (-40 to 65°C) with lithium battery
Humidity	0 to 95%, Non-condensing
Storage Temperature	-40 to 170°F (-40 to 77°C)
Calibration	Factory calibrated; single-point offset calibration via software
Power Source	9V alkaline or lithium battery
Battery Life (average)	20 months (alkaline), 40 months (lithium)
Dimensions	3" L x 2.5" W x 1.09" H (approx. 7.9 x 5.9 x 2.9 inches)
Weight	2.5 oz (71g)

7. PRODUCT VIDEOS

No official product videos from the seller were available for embedding in this manual.

8. WARRANTY AND SUPPORT

8.1. Warranty Information

For detailed warranty information regarding your Supco LCV LOGiT Data Logger, please refer to the documentation included with your purchase or visit the official Supco website. Warranty terms and conditions may vary.

8.2. Technical Support

If you require technical assistance, have questions about operation, or need to report a problem, please contact Supco customer support directly. Contact information can typically be found on the manufacturer's website or in the product packaging.



Image 8.1: Supco brand logo.

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This manual is for informational purposes only. Specifications are subject to change without notice.

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page’s manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question