



Allied Edison LLC

LDL-1100 / LDL-1200

Live-Dead-Live (LDL) Meter Verifiers

Instruction Sheet

Introduction

The LDL-1100 and LDL-1200 Meter Verifiers are electronic voltage sources. These products provide a safe, risk free and easy method to verify proper operation of a test tool. Use them to verify either an energized source or a de-energized source. They can also be used in cases where no known voltage source is available to verify a test tool.

Shorting the output terminals in any combination will result in the output voltage and current going to approximately zero. The fault current is limited by design to less than 5 milliamps. When the short is removed, the output voltage will return to its normal value. The LDL Meter Verifiers are equipped with an auto reset fuse device.

Battery life is dependent upon the quality of the battery installed in the unit and the number and duration of the meter verifications performed. With an average quality commercially available battery installed, the LDL will normally maintain rated output voltage for eight to ten hours of continuous operation or will normally last over a year in normal operation. The battery operational range is 6.375Vdc to 9.5Vdc.

The red power on/status LED on the LDL provides the user with visual indication that the unit is on and that the battery output is adequate. When the battery voltage drops to a preset value required for the LDL to produce the rated output voltage, the LED will no longer light when the unit is turned on and the battery should be replaced.

The Hammond ABS Plastic enclosure is RoHS compliant and has a flammability rating of UL 94HB.

The LDL output current is limited to <5 milliamps short circuit current in all cases.

Allied Edison, LLC does not recommend the use of its products in any applications wherein a failure or malfunction of the product may directly threaten personal injury, death, property damage and/or loss resulting therefrom.

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Or, visit Allied Edison's website at

www.alliededison.com

Safety

To prevent possible electrical shock, fire, or personal injury:

- This equipment is for professional use by trained operators.
- Read all safety information before you use the LDL.
- Carefully read all instructions.
- Do not alter the LDL and use only as specified, or the protection supplied by the LDL can be compromised.
- Do not use the LDL around explosive gas, vapor, or in damp or wet environments.
- Do not use the LDL if it operates incorrectly.
- Visually examine the LDL for damage or missing parts before each use.
- Do not use the LDL if it is altered or damaged.
- Remove the battery if the LDL is not going to be used for an extended period of time to avoid possible damage due to battery leakage.
- Ensure the battery compartment cover is installed prior to operating the LDL.
- Replace the battery when the red LED on the face of the LDL does not light, after the ON switch is operated to the ON position.

Operation

Table 1 shows the locations for the controls and interface of the LDL.

To Use:

1. Press the ON/OFF switch up to the ON position and release it.
2. Verify the red LED on the front of the LDL is lit.
3. Touch the black probe of the test tool to the (N) for ac voltage or (-) for dc voltage.
4. Touch the red probe of the test tool to the (H) for ac voltage or the (+) for dc voltage.

5. Verify the meter is indicating the appropriate voltage for the LDL being used.
6. Press the ON/OFF switch to the down position and release it to turn the LDL off, or allow it to time out (approximately 75 seconds) and it will automatically turn off. If the LDL is already ON, pressing the ON switch prior to the LDL timing out will reset and restart the timing circuit.

Table 1

Item	Description (Typical)
1	AC (H) and (N) terminals
2	DC (+) and (-) terminals
3	Power/Status indicating LED
4	ON/OFF Rocker Switch
5	Operating Instructions
6	Magnet to attach unit to metal panel
7	Belt clip
8	Battery compartment and cover

LDL-1100 Operational

Specifications

Input: 9Vdc (operational range is 6.375Vdc to 9.5Vdc.

Output Voltage: Approximately 50 volts ac/dc

Output Current: Limited to <5 milliamps ac/dc

Operating Temperature Range: -20°C to +55°C

Weight: Without battery installed ≈3.6 oz., with battery installed ≈5.2 oz.

LDL-1200 Operational

Specifications

Input: 9Vdc (operational range is 6.375Vdc to 9.5Vdc.

Output Voltage: Approximately 150 volts ac/dc

Output Current: Limited to <5 milliamps ac/dc

Operating Temperature Range: -20°C to +55°C

Weight: Without battery installed ≈3.6 oz., with battery installed ≈5.2 oz.

Troubleshooting

If the Power/Status LED does not illuminate when the ON/OFF rocker switch is moved to the ON position, then the most likely cause is the battery voltage has dropped to less than 6.375 volts. Replace the 9V battery with a new battery and press the ON/OFF rocker switch to the ON position. If the Power/Status LED still does not illuminate, then the LDL should be replaced.

Limited Warranty and Limitation of Liability

This Allied Edison LLC product will be free from defects in material and workmanship for one year from the date of purchase. This warranty does not cover disposable batteries or damage from accident, neglect, misuse, alteration, contamination or abnormal conditions of operation or handling. To obtain service during the warranty period, contact AE to obtain return authorization and then send the LDL to AE with a description of the problem.

THIS WARRANTY IS YOUR ONLY REMEDY. NO OTHER WARRANTIES, SUCH AS FITNESS FOR A PARTICULAR PURPOSE, ARE EXPRESSED OR IMPLIED. AE IS NOT LIABLE FOR ANY SPECIAL, INDIRECT, INCIDENTAL OR CONSEQUENTIAL DAMAGES OR LOSSES, ARISING FROM ANY CAUSE OR THEORY. ACCORDINGLY, ALL USERS OF THE ALLIED EDISON EQUIPMENT VOLUNTARILY AND KNOWINGLY ACCEPTS AND FULLY ASSUMES ALL RISKS, DANGERS AND HAZARDS AND THE RESPONSIBILITY OF PERSONAL INJURY, DEATH, PROPERTY DAMAGE AND LOSS RESULTING THEREFROM.

Since some states do not allow the exclusion or limitation of an implied warranty or of incidental or consequential damages, this limitation of liability may not apply to you.

The information contained in this Instruction Sheet has been carefully checked and is believed to be accurate; however, no responsibility is assumed for any inaccuracies.

Additional Information

The LDL's were designed in the USA and are manufactured in Mexico in conformance with the IPC-A-610G Standard

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Specifications subject to change without notice.

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