

EXTECH SDL600

EXTECH SDL600 Sound Meter SD Logger Instruction Manual

Environmental Test Equipment

INTRODUCTION

This manual provides comprehensive instructions for the operation, maintenance, and troubleshooting of the EXTECH SDL600 Sound Meter SD Logger. The SDL600 is a precision instrument designed for environmental sound level measurements and data logging, meeting ANSI and IEC 61672-2013 Class 2 standards.

Please read this manual thoroughly before using the device to ensure proper functionality and accurate readings.

PACKAGE CONTENTS

Upon unpacking, verify that all items are present and in good condition:

- EXTECH SDL600 Sound Meter
- SD Card
- Windscreen
- 6 AA Batteries
- Hard Carrying Case
- Instruction Manual (this document)

An optional AC Adaptor (UA100-240) may be purchased separately.

PRODUCT OVERVIEW



Figure 1: Front view of the EXTECH SDL600 Sound Meter. The device features a digital display, control buttons, and a microphone with a windscreen.

The SDL600 is designed for accurate sound level measurements. Key components include the microphone (with windscreen), LCD display, and control buttons for various functions such as power, data hold, min/max, and logging.

SETUP

1. Battery Installation

1. Locate the battery compartment cover on the back of the device.
2. Open the cover and insert the 6 AA batteries, ensuring correct polarity.
3. Replace the battery compartment cover securely.

2. SD Card Insertion

1. Locate the SD card slot, typically on the side or bottom of the device.
2. Insert the provided SD card into the slot until it clicks into place.
3. Ensure the card is inserted correctly to prevent damage.

3. Windscreen Attachment

Gently slide the foam windscreen over the microphone at the top of the device. The windscreen helps to minimize wind noise during outdoor measurements.

OPERATING INSTRUCTIONS

1. Powering On/Off

Press and hold the **POWER** button to turn the device on or off.

2. Measurement Modes

The SDL600 supports both **Auto Ranging** and **Manual Ranging**. Refer to the on-screen indicators and specific buttons (if available) to switch between these modes for optimal measurement range.

3. Data Hold and Min/Max/Peak Hold

- Press the **HOLD** button to freeze the current reading on the display. Press again to release.
- Use the **MIN/MAX** button to display the minimum and maximum sound levels recorded during a measurement session.
- The **PEAK HOLD** function captures and displays the highest instantaneous sound pressure level.

4. Data Logging to SD Card

The SDL600 can log data directly to the inserted SD card in Excel format. This allows for easy transfer to a PC for analysis.

1. **Set Sampling Rate:** The sampling rate is user-programmable from 1 to 3600 seconds. Access the menu settings (refer to device interface) to configure your desired interval.
2. **Start Logging:** Press the dedicated **LOG** button to begin recording data. The device will record readings with a date and time stamp.
3. **Stop Logging:** Press the **LOG** button again to stop recording.
4. **Transfer Data:** Remove the SD card and insert it into a computer to access the logged data files.

5. Internal Memory Storage

The device's internal memory can store up to 99 readings manually. Consult the device's interface for instructions on how to save and recall these readings.

6. Auto Power Off

The SDL600 features an Auto Power Off function to conserve battery life. This feature can be disabled through the device's settings menu if continuous operation is required.

MAINTENANCE

1. Cleaning

Wipe the device with a soft, dry cloth. Do not use abrasive cleaners or solvents. Ensure the microphone and display are kept clean for accurate readings.

2. Storage

When not in use for extended periods, remove the batteries to prevent leakage. Store the device in its hard carrying case in a cool, dry place, away from direct sunlight and extreme temperatures.

3. Calibration

Regular calibration is recommended to maintain measurement accuracy. Refer to professional calibration services or the manufacturer's guidelines for calibration procedures.

TROUBLESHOOTING

Problem	Possible Cause	Solution
Device does not power on.	Dead or incorrectly installed batteries.	Replace batteries with new ones, ensuring correct polarity.
Inaccurate readings.	Microphone obstructed, device needs calibration, or incorrect measurement mode.	Ensure microphone is clear. Perform calibration. Check if Auto/Manual ranging is set appropriately.
SD card logging not working.	SD card not inserted correctly, card full, or card error.	Reinsert SD card. Check available space. Try a different SD card. Ensure logging function is activated.
Display is blank or frozen.	Low battery or system error.	Replace batteries. If problem persists, remove batteries for a few minutes and reinsert to reset the device.

SPECIFICATIONS

- **Model:** SDL600
- **Accuracy:** ± 1.4 dB
- **Standards:** Meets ANSI and IEC 61672-2013 Class 2
- **Ranging:** Auto or Manual
- **Data Logging:** External SD card (Excel format), User programmable sampling rate (1 to 3600 seconds)
- **Internal Memory:** Stores 99 readings manually
- **Functions:** Min/Max, Peak Hold, Data Hold
- **Power:** 6 AA batteries (included), Optional AC Adaptor UA100-240
- **Auto Power Off:** Yes, with disable capability
- **Weight:** Approximately 11.99 Pounds (5.44 kg)
- **Manufacturer:** EXTECH


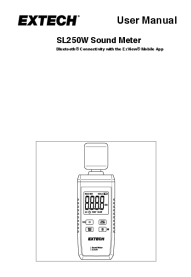



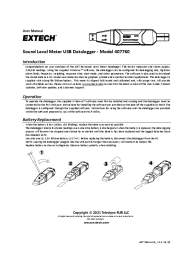
WARRANTY AND SUPPORT

For warranty information and technical support, please refer to the official EXTECH website or contact your local distributor. Keep your purchase receipt as proof of purchase for warranty claims.

Manufacturer: EXTECH

ASIN: B0DVYXV4CS



	<p>Extech 407750 Digital Sound Level Meter - Features, Specifications, and Applications</p> <p>Detailed information on the Extech 407750 Digital Sound Level Meter, including its features, applications, specifications, and ordering information. This meter offers auto/manual ranging, A/C frequency weightings, fast/slow response times, and PC interface capabilities for accurate noise measurements.</p>
	<p>Extech SL250W Sound Meter User Manual</p> <p>User manual for the Extech SL250W Sound Meter, detailing its features, operation, specifications, and warranty. Includes information on Bluetooth connectivity with the ExView mobile app.</p>
	<p>Extech Каталог Измерительных Приборов: Инновации и Качество</p> <p>Полный каталог контрольно-измерительного оборудования Extech, включая мультиметры, токоизмерительные клещи, термометры и многое другое. Узнайте о передовых технологиях и высоком качестве продукции Extech.</p>
	<p>Extech 407790A Real Time Octave Band Analyzer User Manual</p> <p>Comprehensive user manual for the Extech 407790A Real Time Octave Band Analyzer and Sound Level Meter. Covers features, operation, setup, measurement procedures, data logging, specifications, and calibration for accurate noise analysis.</p>
	<p>EXTECH 45170 4-in-1 Humidity, Temperature, Airflow, and Light Meter User Manual</p> <p>User manual for the EXTECH 45170, a 4-in-1 meter measuring humidity, temperature, airflow, and light. Includes operation, specifications, and warranty information.</p>
	<p>EXTECH 407760 Sound Level Meter USB Datalogger User Manual</p> <p>User manual for the EXTECH 407760 Sound Level Meter USB Datalogger. This document provides essential information on the device's introduction, operation, and battery replacement procedures.</p>