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Laserliner 082.070A

Laserliner SoundTest-Master 082.070A Noise Level Meter Instruction Manual

Model: 082.070A

INTRODUCTION

This manual provides essential information for the safe and effective operation of your Laserliner SoundTest-Master 082.070A Noise Level Meter. Please read these instructions carefully before using the device and keep them for future reference. The SoundTest-Master 082.070A is designed for precise measurement of noise levels, featuring integrated long-term memory and PC connectivity for comprehensive documentation.

SAFETY INSTRUCTIONS

- Always operate the device within its specified environmental conditions.
- Do not expose the device to extreme temperatures, humidity, or direct sunlight.
- Avoid dropping the device or subjecting it to strong impacts.
- Do not attempt to open or modify the device. Repairs should only be performed by authorized personnel.
- Keep the device away from strong magnetic fields.
- Ensure the microphone is clean and free from obstructions for accurate measurements.

PRODUCT OVERVIEW

The Laserliner SoundTest-Master 082.070A is a handheld noise level meter equipped with a sensitive electret condenser microphone and a clear, illuminated display. It features various controls for measurement settings and data management.



Figure 1: Front view of the SoundTest-Master 082.070A, showing the display, microphone with windshield, and control buttons.

Key Components:

- **Electret Condenser Microphone:** For capturing sound. Includes a removable windshield.
- **Illuminated Display:** Shows measurement values, settings, and status.
- **Control Buttons:** Power, Setup, Max, Record, A/C weighting, Fast/Slow time weighting, Level adjustment, Data send.
- **Analog Outputs:** DC and AC outputs for external connections.
- **RS232 Interface:** Optoisolated port for PC connection and data transfer.

SETUP

1. Battery Installation

The device requires batteries for operation. Ensure correct polarity when inserting batteries into the compartment, typically located on the rear of the unit.

2. Initial Power-On

Press the **Power** button to turn on the device. The display will illuminate and show initial readings.

3. Windshield Attachment

Attach the removable windshield to the microphone to minimize wind noise interference during outdoor measurements.

OPERATING INSTRUCTIONS

1. Basic Measurement

1. Turn on the device using the **Power** button.
2. Point the microphone towards the sound source.
3. The current noise level will be displayed in decibels (dB).

2. Frequency Weighting (dB(A), dB(C))

Use the **A/C** button to switch between frequency weighting curves:

- **dB(A):** Simulates the human ear's response to sound, commonly used for environmental noise measurements.
- **dB(C):** Provides a flatter response, suitable for measuring peak sound pressure levels or low-frequency noise.

3. Time Weighting (Fast/Slow)

Press the **FAST/SLOW** button to select the desired time weighting:

- **FAST (125 ms):** For measuring rapidly changing noise levels.
- **SLOW (1 second):** For measuring average noise levels over a longer period, suitable for stable noise sources.

4. Data Logging and PC Connection

The device features a long-term recording function with 16,000 memory points and real-time logging capabilities when connected to a PC.

1. **Internal Data Logging:** Press the **RECORD** button to start/stop internal data recording. The device can store up to 16,000 measurement points.
2. **PC Connection:** Connect the device to a computer using the provided RS232 cable.



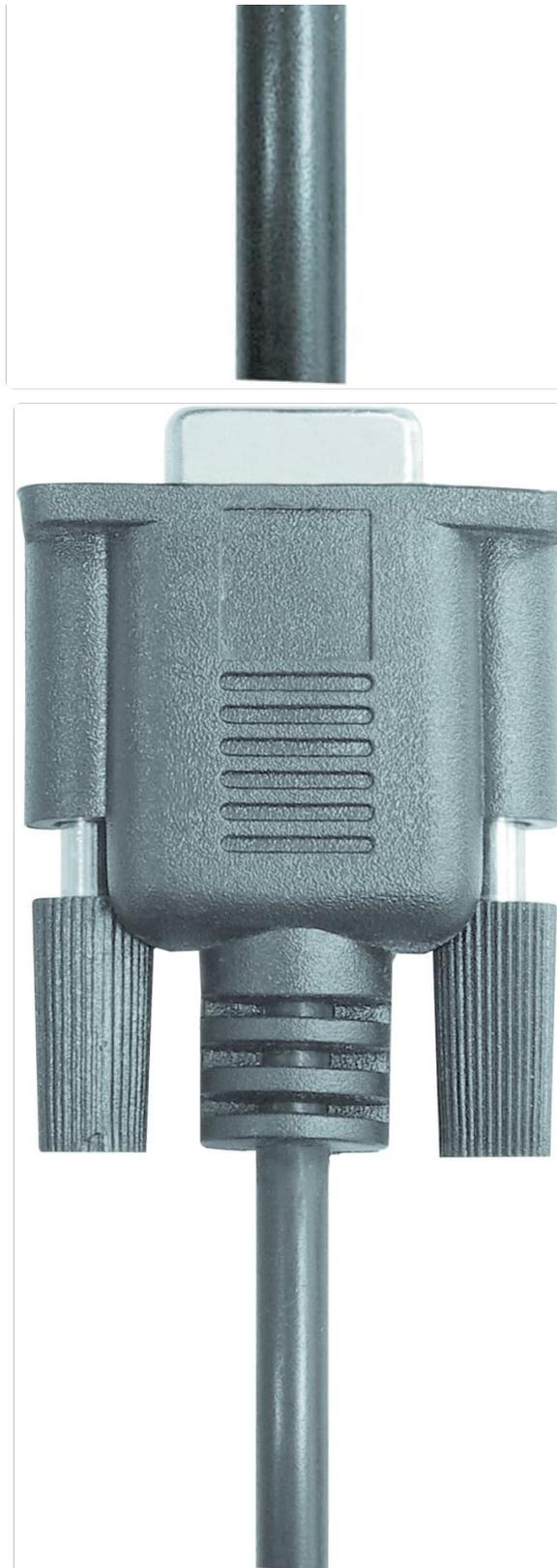


Figure 2: RS232 cable connectors used for connecting the SoundTest-Master to a PC.

3. **Software:** Install the provided software on your PC. This software allows for real-time data display, analysis, and download of recorded data.
4. **Sending Data:** Use the **SEND DATA** button to initiate data transfer to the connected PC.

5. Calibration

The device can be calibrated and adjusted using a standard noise level calibrator (94 dB / 1 kHz). Refer to the calibrator's instructions for the specific calibration procedure.

MAINTENANCE

1. Cleaning

- Wipe the device casing with a soft, dry cloth.
- Do not use abrasive cleaners or solvents.
- Ensure the microphone is kept clean and free of dust or debris.

2. Storage

When not in use, store the SoundTest-Master in its protective case in a cool, dry place, away from direct sunlight and extreme temperatures. Remove batteries if storing for extended periods.



Figure 3: The SoundTest-Master 082.070A stored in its protective carrying case.

TROUBLESHOOTING

Problem	Possible Cause	Solution
Device does not power on.	Dead or incorrectly installed batteries.	Replace batteries, ensuring correct polarity.
Inaccurate readings.	Microphone obstructed or dirty; device needs calibration.	Clean microphone; perform calibration with a standard calibrator.
No data transfer to PC.	Incorrect cable connection; software not installed or configured.	Check RS232 cable connection; ensure PC software is correctly installed and running.
Display is dim or unreadable.	Low battery power; display backlight off.	Replace batteries; check device settings for backlight control.

SPECIFICATIONS

Feature	Detail
Model Name	SoundTest-Master
Part Number	082.070A
Manufacturer	Umarex
Brand	Laserliner
Frequency Weighting	dB(A), dB(C)
Time Weighting	FAST (125 ms), SLOW (1 second)
Data Memory	16,000 measuring points
Interface	Optoisolated RS232
Analog Outputs	DC and AC
Calibration	Adjustable with 94 dB / 1 kHz standard calibrator
Microphone	Sensitive electret condenser with removable windshield
Display	Illuminated, clear display
Item Weight	1.18 Kilograms (2.6 pounds)
Product Dimensions	10.33 x 5.51 x 13.78 inches
Material	Metal (Frame, Barrel)
Color	Black and Grey
Batteries Required	Yes (not included, type not specified in data)

WARRANTY AND SUPPORT

For warranty information and technical support, please refer to the documentation included with your purchase or visit the official Laserliner website.