

TRIPLETT

SoniChek MC

**Mini Sound Level Meter
C Weighted**

Instruction Manual



 **TRIPLETT**

84-888
4-10

Test Equipment Depot - 800.517.8431
99 Washington Street, Melrose, MA 02176

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I. Safety information

Read the following safety information carefully before attempting to operate or service the SoniChek MC. For best performance and continued safe operation, use the SoniChek MC only as specified in this manual.



- **Operating Conditions**

- (1) Relative humidity 90% max.
- (2) Ambient Temperature 32 ~104 °F

- **Maintenance & Cleaning**

- (1) Repairs or servicing should only be performed by qualified personnel.
- (2) Periodically wipe the case with a dry cloth. Do not use abrasives or solvents on this instrument.

- **Safety symbols**

-  The SoniChek MC is protected by double insulation or reinforced insulation.
-  When servicing, use only specified replacement parts. Complies with EMC Directive.

II. General Description

The Triplett SoniChek MC is a compact Sound Level Meter with C Weighting. Its ergonomic handsized design is convenient and practical. Features include a large auto backlit LCD display, MIN and MAX memories, Auto Power Off, tripod mounting thread, and a non-slip rubber grip. The C weighting makes the SoniChek MC ideal for testing sound levels in home theaters, music performances, car audio, and other situations requiring broad frequency response.

To ensure that you can get the most from this product, we recommend that you read and follow this manual carefully.

III. Features

- Modern Compact Ergonomic Design
- 40 to130dB SPL measurement range
- Frequency from 31.5Hz to 8KHz.
- 4 Digit Backlit LCD
- 0.1dB Resolution
- C Weighting
- Fast Response
- Min / Max Hold
- Auto Power Off
- Tripod Thread
- Non-Slip Grip
- Uses common 9V battery

IV. Specifications

Frequency Response : 31.5Hz to 8KHz

Measuring Level Range : 40dB to 130dB SPL

Frequency Weighting : C

Microphone : 1/2 inch electret condenser
microphone

Display : LCD

: 4 digits

: 0.1dB Resolution

: 0.5 sec display update

Response Time : FAST(125mS)

Accuracy : + 3.5dB @1kHz, 94dB reference

Overrange : "OVER" displayed when input is
greater than 130dB

Auto Power Off : Meter automatically shuts
down after approx. 15 minutes
of inactivity.

Battery : One 9V, 006P or IEC 6F22 or NEDA 1604.

Operation Temperature : 32 to 104 °F

Operation Humidity : 0 to 90% RH

Storage Temperature : 14 to 140 °F

IV. Specifications Cont.

Storage Humidity : 0 to 75% RH

Dimensions (including wind screen)

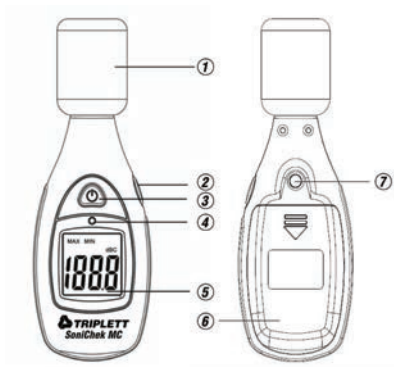
: 5 3/4" x 2" x 1 1/4"

Weight : 4.6 oz (including battery)

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IV. Control Locations and Descriptions



- 1: Windscreen and Electret Condenser Microphone
- 2: MAX/MIN Button
- 3: Power ON/OFF button
- 4: Ambient Light Sensor
(turns LCD backlight on and off)
- 5: Digital LCD display
- 6: Battery Cover
- 7: Tripod Thread

V. Measurement Preparation

1: Install New Battery

Remove the battery cover on the back of the SoniChek MC and observing proper polarity, install one 9V Battery.

2: Battery Replacement

When the battery voltage is low, “BAT” appears on the LCD. Replace battery.

VI. Operating Precautions

- 1: Air moving across the microphone causes noise that the SoniChek MC measures. Although the air movement may be silent to the user, it is ‘heard’ by the SoniChek MC. The provided foam windscreen suppresses the noise, but does not eliminate it. Consider this when taking measurements in areas where air movement or wind is a factor.

VI. Operating Precautions Cont.

- 2: Do not operate the instrument in temperatures or humidities exceeding those stated in the Specifications. Doing so may produce inaccurate results or damage the instrument.
- 3: Keep microphone dry and avoid shock and vibration.
- 4: When not in use, remove the battery and store in a protected location with moderate temperatures and humidities (see Specifications).

VII. Measurement

(Refer to “Control Locations and Descriptions”)

- 1: Turn on power by pressing and releasing the ON/OFF button (3)
- 2: Hold the instrument comfortably in hand or fix on tripod and point the microphone at the sound source. The sound pressure level will be displayed on the LCD (5)
- 3: The SoniChek MC can capture and hold the maximum or minimum sound level. To activate this feature, press and release the MAX/MIN button (2) once to activate MAX, again to activate MIN, or hold the button in to return to normal measurements. The mode is indicated by MAX or MIN appearing in the LCD display.
- 4: Turn power off by pressing and releasing the ON/OFF button.

Note: The SoniCheck MC will automatically turn on the LCD backlight in low light situations.

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