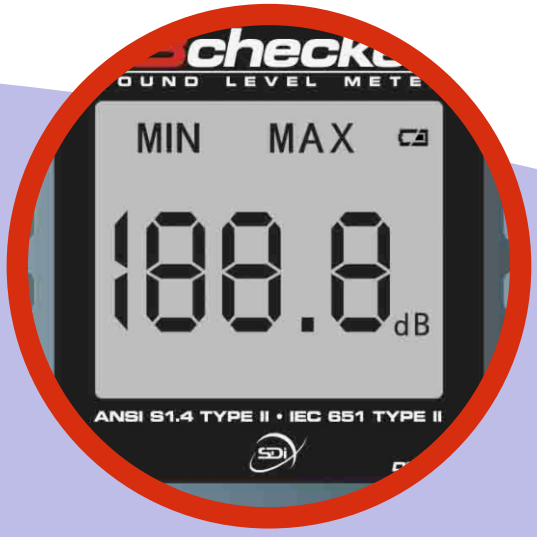
dbchecker™

Sound Level Meter

- *Ideal for maintenance of fire and security alarm systems*
- *Easy to use*
- *Unit conforms to the IEC651 type 2, ANSI S1.4 Type 2 (Required by NFPA 72 Chapter 14, 14.4.2.2.(15))*
- *Designed to meet the requirements of Life Safety Engineers*
- *Range from 32dB to 130 dB at frequencies between 31.5Hz and 8 KHz*
- *Display with 01.dB steps on a 4-digit LCD*
- *Two equivalent weighted sound pressure levels, A and C AC Signal output available*



dbchecker™ is ideal for testing audible appliances for the public operating mode of an emergency voice/alarm system in accordance with manufacturers instructions.

INSTRUCTIONS

(1) Open battery cover and install a 9V battery in the battery compartment.

(2) Turn power ON and select the desired response time and weighting. If the sound source consists of short bursts or only catching sound peak, set response to FAST. To measure average sound level, use the SLOW setting.

(3) Select desired Level.

(4) Hold the instrument comfortably in hand and point the microphone at the suspected noise source, the sound pressure level will be displayed.

(5) When MAX/MIN (maximum, minimum hold) mode is chosen. The instrument captures and holds the maximum noise level for a long period using any of the time weightings and ranges.

Press the MAX/MIN button 2 seconds to clear the MAX/MIN reading. “MAX/MIN” symbol disappears.

(6) Turn OFF the instrument.

SPECIFICATIONS

Standard Applied: IEC651 Type2, ANSI S1.4 Type2.
Frequency Range: 31.5Hz to 8KHz
Measuring Level Range: 32dB to 130dB
Frequency Weighting: A / C
Microphone: ½ inch electrical condenser microphone
Display: LCD
Digital Display: 4 digit
Resolution: 0.1dB
Display Update: 0.5 sec.
Time Weighting: FAST (125mS), SLOW (1 sec.)
Level Ranges: Lo: 32 dB to 80 dB
Med: 50 dB to 100 dB
Hi: 80 dB to 130 dB
Accuracy:
±1.5dB (under reference conditions, 94dB@1kHz)
Dynamic Range: 50 dB
Alarm Function: “OVER” is when the input is more than upper limit of range.
“UNDER” is when input is less than lower limit of range.
MAX / MIN Hold:
Hold readings the Maximum and Minimum Value.
AC Output: 1 Vms at FS (full scale).
Output impedence: Approx 100 Ohms
FS: means the upper limit of each level range.
Power Supply:
One 9V battery, 006P or IEC 6F22 or NEDA 1604.
Power Life: Approximately 70hours (Alkaline Battery)
Operation Temperature: 0 to 40°C (32 to 104°F)
Operation Humidity: 10 to 75%RH
Dimensions: 9.1” L x 2.1” W x 1.3” H
23.1 cm x 5.3 cm x 3.3 cm
Weight: .75 lbs (.34kg) (including battery)
Accessories: 9V battery, screwdriver, instruction manual and windscreen.

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WHY dBchecker?

Merely "listening" or utilizing any sound level meter available is not a reliable method for testing audible alarm notification appliances. Many of the meters currently on the market do not meet the requirements for NFPA 72. ***dBchecker™*** *conforms to ANSI S1.4a, which is required to meet the standard set forth in the latest edition of the National Fire Alarm Code. (NFPA 72)*

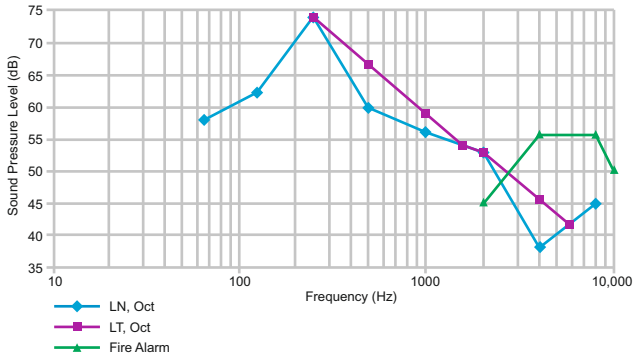
HIGHEST STANDARDS

" ….only sound level meters that comply with ANSI S1.42 should be used for the assessment of fore alarm systems…"

" …Testing of Audible Alarm Notification Appliances shall be done upon initial acceptance and semi-annually"

" …Sound pressure shall be measured with sound level meter meeting ANSI S1.4a, Specifications for Sound Level Meters, Type 2 Requirements. Levels throughout the protected area shall be measured and recorded…." NFPA 72 14.4.2.2 (15)

CAN/ULC S536-04, G1.1
" The sound level meter shall have a measurement range that permits readings as low as 35 dBA..." "The use of a quality meter to minimize any measurement errors. ANSI S1.40, Specifications for Acoustic Calibrators, is one standard that can provide guidance on the subject."



ALSO AVAILABLE FROM SDi

- Professional Smoke Detector Testers
  with approved and listed dispensers
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  suitable for fixed temperature, rate of rise and combined detectors
- CO Detector Testers
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- Aerosol Dispensing Tools
  as recommended by detector manufacturers
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  suitable for all leading makes and model of detector
- Access Poles
  to enable detector maintenance up to 30+ ft.
- Complete Maintenance and Service
  providing complete solutions in economical and convenient kit formats
- Smoke Detector Sensitivity Instruments
  to identify sensitivity drift and help ensure that smoke detector sensitivity is maintained within defined calibration parameters

SDi
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