

# DIGITAL SOUND LEVEL METER



USER MANUAL





With this meter you have bought a very fine, versatile and precise measuring tool that allows you to measure sound pressure levels in a wide range. Please be aware that this measuring instrument, however precise, is not to be used for purposes other than indicating a sound pressure level. No legal proof can be acquired with this instrument nor can the manufacturer or distributor of this instrument be made responsible for any claims originating from using this tool as a measuring instrument.

This measuring instrument is capable of indicating very high sound levels, that is, up to 130dB. When being exposed to such sound levels, even for short periods of time, it is important to protect your ears. At the same time protection should be worn at lower sound pressure levels when exposed to sound for longer periods. Please study adequate literature as this is beyond the responsibility of the manufacturer or distributor of this measuring instrument.

The sound level meter works on batteries or an external power adapter. The power adapter is not included but the batteries are.

There are 6 pcs. of 1,5 Volt AAA model battery included. When not using the measuring instrument for a longer period, please remove the batteries from the device to avoid damage to the device caused by leakage of the batteries.



As it says in the name, this is a "sound level meter" that is, it will indicate the sound level as it is perceived by the human ear. Therefore the measured sound is filtered using a curve that mimes the sensitivity of the human ear. The International Electrotechnical Commission (IEC) has defined several weighting schemes that are laid down in a standard called ANSI S1.1-1994. The curve used to match the human ear is called A-curve. This curve is used in the sound level meter by default. When wanting to measure peak sound levels the device should be switched to use the C-curve.

#### LCD display

- Analog bar indicator
- Wide dynamic range
- Auto / manual range
- Fast / Slow response selectable
- Max. value Hold function
- A / C weighting selection
- Date and time display
- AC / DC auxiliary output
- Backlight
- Low power indication

Measurement range: 30 dB - 130 dB

Accuracy: +/-2 dB

Resolution: 0,1 dB

Sample rate: 2 times/s

Frequency range: 20 Hz - 8 kHz





On the digital sound level meter there are the following controls:

- 1) on/off switch. Turn on the measuring device by pressing this button. Pressing it again will turn off the device
- 2) max button. will freeze the display reading to the maximum level, measured since this button was pressed. The reading will be updated when the indicated value is surpassed.
- 3) up and down arrow buttons. will increase or decrease the measuring range in 6 steps where each step covers a range of 50dB. a next step will set the measuring range to the total of 30 - 130 dB
- 4) A/C. switches between A-curve and C-curve
- 5) light button. will turn on and off a backlight in the display to facilitate reading in a dark environment.
- 6) fast / slow. switches between indicating an average level measured during a time interval of 5 mili-second or 500 mili-second

First make sure there are charged batteries in the sound level meter. There are 6 batteries included in the packing. When inserting the batteries, please pay attention to the polarity. The position of each battery is indicated on the bottom of the battery compartment.

Switch on the sound level meter. The device should now show figures on its display. On that display you can read the sound level in dB ( deci-Bell ). With that value is indicated whether the measurement is filtered following the A-curve or C-curve. Next there is the indication "dB". Above this reading, time is indicated.

In the top of the display there is a scale showing the average sound level between the values indicated at the ends of that scale the range of which can be changed by pressing the yellow up and down buttons. Finally in the top-right corner is indicated whether the unit will integrate the measured value in a short or longer period of time.

The device will show a reading in deci-Bell, A-weighted. When the noise level to be measured will be out of range, the words "under" or "over" will appear over the values that indicate the measuring-range at the ends of the scale. The range can be adjusted by pressing the yellow up and down buttons.

## setup

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When switching on the device, its clock will probably not run at the correct time. To adjust this clock please proceed as follows: Switch off the unit. While holding pressed the MAX button, switch the unit on again by pressing the on/off button. Now only the clock reading will appear on the display while the indication of the seconds will be blinking. Use the yellow arrowbuttons to increase or decreases the seconds reading. Next press the MAX button to toggle to the minutes reading that will now be blinking. Adjust the minutes and Toggle to the hour reading by pressing the MAX button again. Please note that the clock will indicate in 24 hour mode. Pressing the MAX button again will change the display to indicating the date with the day blinking to be adjusted. Next the month and finally the year. To return to the normal wordking mode, switch the unit off and on again.



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