BS06

EN

INSTRUCTIONS
DIGITAL SOUND LEVEL METER

TROTEC

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Information on the use of these instructions

Symbols

Warning
This signal word indicates a hazard with an average risk level which, if not avoided, can result in serious injury or death.

Warning of electrical voltage
This symbol indicates dangers to the life and health of persons due to electrical voltage.

Caution
This signal word indicates a hazard with a low risk level which, if not avoided, can result in minor or moderate injury.

Notice
This signal word indicates important information (e.g. material damage), but does not indicate hazards.

Info
Information marked with this symbol helps you to carry out your tasks quickly and safely.

Follow the manual
Information marked with this symbol indicates that the instructions must be observed.

You can download the current version of these instructions via the following link:



BS06

https://hub.trotec.com/?id=43270

Safety

Read this manual carefully before starting or using the device. Always store the manual in the immediate vicinity of the device or its site of use!

Warning
Read all safety warnings and all instructions. Failure to follow the warnings and instructions may result in electric shock, fire and/or serious injury.
Save all warnings and instructions for future reference.

- Do not use the device in potentially explosive rooms or areas and do not install it there.
- Do not use the device in an aggressive atmosphere.
- Do not immerse the device in water. Do not allow liquids to penetrate into the device.
- The device may only be used in dry surroundings and must not be used in the rain or at a relative humidity exceeding the operating conditions.
- Protect the device from permanent direct sunlight.
- Do not expose the device to strong vibrations.
- Do not open the device.
- Do not remove any safety signs, stickers or labels from the device. Keep all safety signs, stickers and labels in legible condition.
- Use batteries of type 6LR61 (9 V battery).
- Never charge a battery that cannot be recharged.
- Insert the battery into the battery compartment according to the correct polarity.
- Remove the discharged battery. Batteries contain materials hazardous to the environment. Dispose of the battery according to the national regulations.
- Remove the battery from the device if you will not be using the device for a longer period of time.
- Never short-circuit the terminal of the battery!
- Do not swallow batteries! If a battery is swallowed, it can cause severe internal burns within 2 hours! These burns can lead to death!
- If you think batteries might have been swallowed or otherwise entered the body, seek medical attention immediately!
- Keep new and used batteries and an open battery compartment away from children.
- Only use the device, if sufficient safety precautions were taken at the surveyed location (e.g. when performing measurements along public roads, on building sites etc.). Otherwise do not use the device.

- Observe the storage and operating conditions (see Technical data).
- Do not expose the device to directly squirting water.
- Check accessories and connection parts for possible damage prior to every use of the device. Do not use any defective devices or device parts.

Intended use

Only use the device for sound level measurements within the measuring range specified in the technical data.

Any use other than the intended use is regarded as misuse.

Reasonably foreseeable misuse

Do not use the device in potentially explosive atmospheres, for measurements in liquids and at live parts. In such a case, any warranty claims will be voided. Any unauthorised modifications, alterations or structural changes to the device are forbidden.

Personnel qualification

People who use this device must:

- have read and understood the instructions, especially the Safety chapter.

Personal protective equipment



Wear hearing protection

Wear hearing protection when handling the device.

Residual risks



Warning of electrical voltage

There is a risk of a short-circuit due to liquids penetrating the housing!
Do not immerse the device and the accessories in water. Make sure that no water or other liquids can enter the housing.



Warning of electrical voltage

Work on the electrical components must only be carried out by an authorised specialist company!



Warning

There is a danger of suffocation for children due to packaging material! Keep packaging films and parts away from children. There is a risk of death due to suffocation.



Warning

Risk of hearing damage!
Ensure sufficient ear protection when there are sources of loud sound. There is a danger of hearing damage.



Warning

The device is not a toy and does not belong in the hands of children.



Warning

Dangers can occur at the device when it is used by untrained people in an unprofessional or improper way! Observe the personnel qualifications!



Caution

Keep a sufficient distance from heat sources.

Notice

To prevent damages to the device, do not expose it to extreme temperatures, extreme humidity or moisture.

Notice

Do not use abrasive cleaners or solvents to clean the device.

Information about the device

Device description

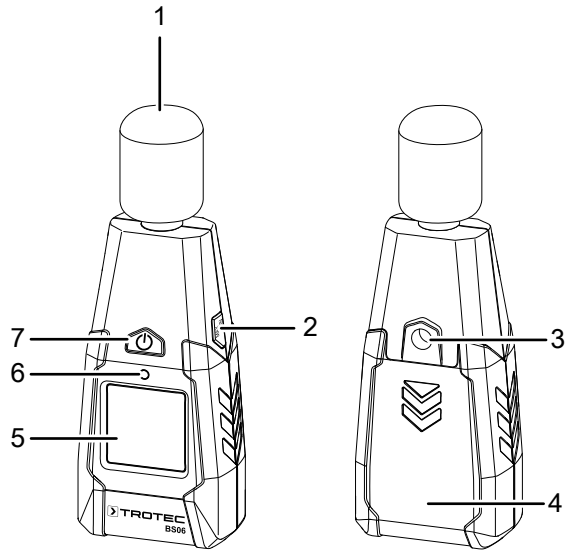
By use of the digital sound level meter BS06 the sound level can be measured in dB(A) in real time.

A MAX/MIN function is available for the assessment of the measurements.

The display illumination automatically adjusts to the ambient light conditions.

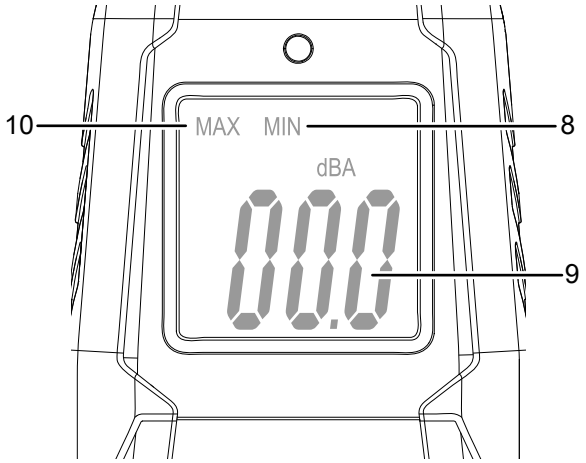
When not in use, an automatic switch-off saves the battery.

Device depiction



No.	Designation
1	Microphone with wind shield
2	*MAX/MIN* button
3	Tripod thread
4	Battery compartment with cover
5	Display
6	Light sensor
7	*Power* button

Display



No.	Designation
8	*MIN* indication
9	*Measured value* in dB(A) indication
10	*MAX* indication

Technical data

Parameter	Value
Model	**BS06**
Weight	140 g
Dimensions (length x width x height)	132 mm x 56 mm x 33 mm
Measuring range	30 to 130 dB(A) (31.5 Hz to 8 kHz)
Accuracy	± 3.5 dB (at 1 kHz and 94 dB)
Measuring range resolution	0.1 dB
Time weighting	125 ms
Microphone	1/2-inch electret condenser microphone
Operating temperature	0 to 40 °C with 10 to 75 % RH
Operating altitude	max. 2000 m
Storage temperature	-10 to 60 °C
Power supply	9 V battery battery life: approx. 5000 to 8000 measurements
Automatic switch-off	after approx. 15 minutes

Scope of delivery

- 1 x Digital sound level meter BS06 (without battery)
- 1 x Bag
- 1 x Wind shield for microphone
- 1 x Manual

Transport and storage

Notice

If you store or transport the device improperly, the device may be damaged.
Note the information regarding transport and storage of the device.

Transport

For transporting the device, use the bag included in the scope of delivery in order to protect the device from external influences.

Storage

When the device is not being used, observe the following storage conditions:

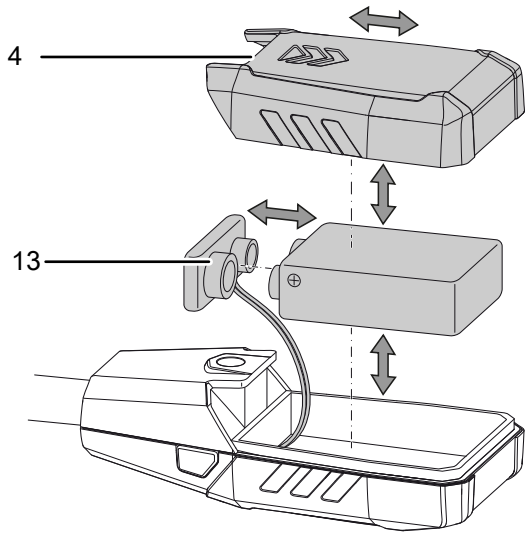
- dry and protected from frost and heat
- protected from dust and direct sunlight
- protected from dust ingress in the supplied bag
- at the temperature specified in the technical data
- battery is removed from the device

Operation

Inserting the battery

Notice

Make sure that the surface of the device is dry and the device is switched off.



1. Remove the cover (4) from the device by sliding it in the direction of the arrow.
2. Use the battery clip (13) to connect the new battery with correct polarity.
3. Slide the cover (4) back on the device.

Switch-on and measurements

1. Press the *Power* button (7).
   ⇨ The display will be switched on and the device ready for operation.
   ⇨ In case of poor lighting conditions the display illumination switches on automatically. The display illumination is controlled by the sensor (6).
2. Point the device with the microphone end directly toward the sound source.
   ⇨ Reach out as far as possible to hold the device away from your body or mount it to a tripod via the tripod thread (3). This helps to avoid foreign influences during the sound measurement.
   ⇨ If it is windy (> 10 m/s) use the supplied wind shield so as not to falsify the measured value.
   ⇨ The measured value will be displayed in dB(A).

Notice

Note that moving from a cold area to a warm area can lead to condensation forming on the device's circuit board. This physical and unavoidable effect can falsify the measurement. In this case, the display shows either no measured values or they are incorrect. Wait a few minutes until the device has become adjusted to the changed conditions before carrying out a measurement.

Info

Please note that the measurement of a sound source always has to be carried out directly. There must be no objects or persons located in between the microphone and the sound source, unless their influence on the sound intensity is to be measured on purpose as well.

Setting the MAX / MIN function

By use of the MAX/MIN function you can either read the highest or the lowest value.

1. Press the *MAX/MIN* button (2).
   ⇨ The *MAX* indication (10) appears on the display.
   ⇨ The display now indicates the highest sound level measured since the device was switched on.
2. Press the *MAX/MIN* button (2) again.
   ⇨ The *MIN* indication (8) appears on the display.
   ⇨ The display now indicates the lowest sound level measured since the device was switched on.
3. Press the *MAX/MIN* button (2) for 2 seconds.
   ⇨ The MAX/MIN function is deactivated and the current measured value is displayed.

Switching the device off

1. Press the *Power* button (7).
   ⇨ The device will be switched off.
   ⇨ The MAX and MIN values are reset.

The device comes equipped with an automatic switch-off function. After 15 minutes of non-use the device switches off automatically.

Errors and faults

The device has been checked for proper functioning several times during production. If malfunctions occur nonetheless, check the device according to the following list.

Display segments are only faintly visible or flicker:

- The battery voltage is too low. Exchange the batteries immediately.
- Make sure that the battery is properly positioned. Check the polarity is correct.

The device displays implausible measured values:

- The battery voltage is too low. Exchange the batteries immediately.
- The microphone may be dirty or damaged. Check the microphone and use the wind shield if necessary.

Maintenance and repair

Battery change

A battery change is required, when the displayed values are difficult to read, when the measured values are implausible, or if the device can no longer be switched on. See chapter Operation.

Cleaning

Clean the device with a soft, damp and lint-free cloth. Make sure that no moisture enters the housing. Do not use any sprays, solvents, alcohol-based cleaning agents or abrasive cleaners, but only clean water to moisten the cloth.

Repair

Do not modify the device or install any spare parts. For repairs or device testing, contact the manufacturer.

Disposal

Always dispose of packing materials in an environmentally friendly manner and in accordance with the applicable local disposal regulations.



The icon with the crossed-out wheeled bin indicates that this device and any associated components (e.g. remote controls) must not be disposed of with household waste at the end of their life, in accordance with the Waste Electrical and Electronic Equipment Directive (2012/19/EU) and national laws.

You will find collection points for free return of waste electrical and electronic equipment in your vicinity. The addresses can be obtained from your municipality or local administration. You can also find out about other return options that apply for many EU countries on the website https://hub.trotec.com/?id=45090. Otherwise, please contact an official recycling centre for electronic and electrical equipment authorised for your country.

The separate collection of waste electrical and electronic equipment aims to enable the re-use, recycling and other forms of recovery of waste equipment as well as to prevent negative effects for the environment and human health caused by the disposal of hazardous substances potentially contained in the equipment.



This icon with the crossed-out wheeled bin indicates that batteries or accumulators must not be disposed of with household waste at the end of their life. If the device contains batteries or accumulators that contain mercury, cadmium or lead, the respective chemical symbol (Hg, Cd or Pb) is shown below the icon of the crossed-out wheeled bin. To prevent environmental pollution, do not carelessly leave batteries or electrical and electronic equipment containing batteries in public areas. In the European Union, batteries and accumulators must be returned to a designated collection point in accordance with REGULATION (EU) 2023/1542 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 12 July 2023 concerning batteries and waste batteries. Remove batteries/accumulators and dispose of them separately according to the relevant legal requirements.

Only for United Kingdom

According to Waste Electrical and Electronic Equipment Regulations 2013 (SI 2013/3113) (as amended) and the Waste Batteries and Accumulators Regulations 2009 (SI 2009/890) (as amended), devices that are no longer usable must be collected separately and disposed of in an environmentally friendly manner.

Trotec GmbH

Grebbener Str. 7
52525 Heinsberg
Germany
+49 2452 962-0
+49 2452 962-200

online@trotec.com
www.trotec.com