

BS06

EN

OPERATING MANUAL
DIGITAL SOUND LEVEL
METER



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Notes regarding the operating manual

Symbols



Danger!

Warns of a hazard which can lead to injuries.



Caution!

Warns of a hazard which can lead to damage to property.

The current version of the operating manual can be found at: www.trotec.de

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The scope of delivery may vary from product images. This document was created with all due care. TROTEC® accepts no liability whatsoever for possible mistakes or omissions.

The only party responsible for determining measured results to be valid, drawing conclusions and deriving actions is the user! TROTEC® accepts no claims of warranty for the correctness of the determined measured values or measured results. Further, TROTEC® accepts no liability whatsoever for possible mistakes or damage which have been caused by utilising the determined measured results. © TROTEC®

Information about the device

Description of the device

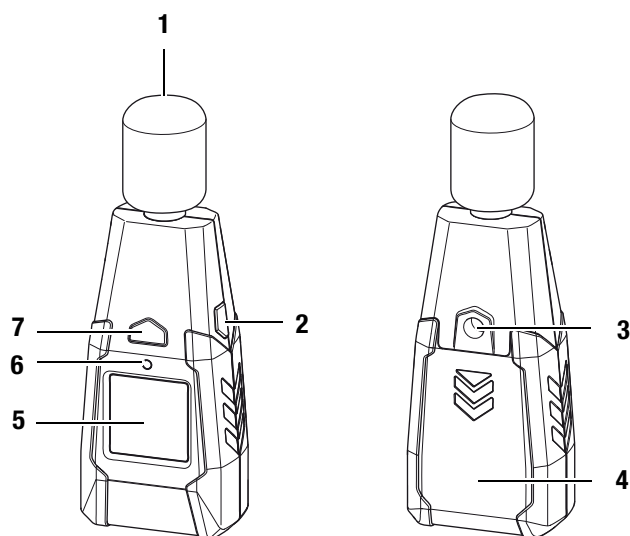
By use of the digital sound level meter the sound level can be measured in dBA in real time.

Further available for the assessment of the measurements is a Min/Max function.

The display illumination automatically adjusts to the ambient light conditions.

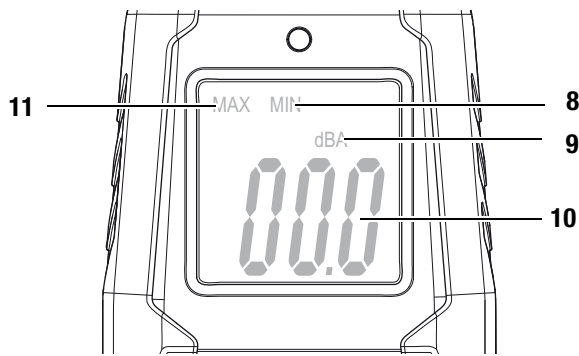
When not in use, an automatic switch-off saves the battery.

Device depiction



No.	Operating element
1	Microphone with wind shield
2	MAX/MIN button
3	Tripod thread
4	Battery compartment with cover
5	Display
6	Light sensor
7	On/Off key

Display



No.	Display element
8	Indication of the minimum value
9	dBA indication
10	Measurement value display
11	Indication of the maximum value

Technical data

Model:	BS06
Weight:	140 g
Dimensions (H x W x D):	132 mm x 56 mm x 33 mm
Measuring range:	30 to 130 dBA (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:	1 x Alkaline 9 V battery Battery life approx. 5000 to 8000 measurements

Automatic switch-off of the device: After approx. 15 minutes of non-use

Scope of delivery

- 1 x Digital sound level meter BS06
- 1 x 9 V battery
- 1 x Wind shield for microphone
- 1 x Getting started guide

Safety

Carefully read the operating manual before using the device and keep it within reach!

- Do not use the device in atmospheres containing oil, sulphur, chlorine or salt.
- Protect the device from permanent direct sunlight.
- Do not remove any safety signs, stickers or labels from the device. Keep all safety signs, stickers and labels in legible condition.
- Observe the storage and operating conditions (see chapter Technical data).

Intended use

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

To use the device for its intended use, only use accessories and spare parts which have been approved by TROTEC®.

Improper use

Do not use the device in potentially explosive atmospheres, for measurements in liquids and at live parts. TROTEC® accepts no liability for damages resulting from improper use. In such a case, entitlements to a warranty are forfeited. Any unauthorised modifications, alterations or structural changes to the device are forbidden.

Personnel qualifications

People who use this device must:

- have read and understood the operating manual, especially the Safety chapter.

Residual risks



Danger!

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



Danger!

Do not leave the packaging lying around. Children may use it as a dangerous toy.



Danger!

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



Danger!

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



Caution!

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



Caution!

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

Transport and storage

Transport

For transporting the device use a suitable bag to protect it from external influences.

Storage

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

- dry,
- protected from dust and direct sunlight,
- with a plastic cover to protect it from invasive dust, if necessary.
- The storage temperature is the same as the range given in the chapter Technical data.
- When storing the device for a long time, remove the batteries.

Operation

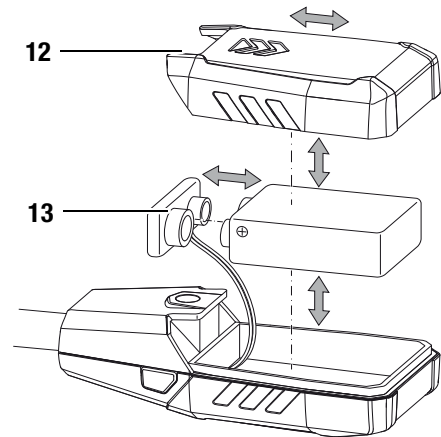
Inserting the battery

- Insert the supplied battery before first use.



Caution!

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



1. Remove the cover (12) 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 (12) back on the device.

Switch-on and measurements

1. Press the On/Off key (7).
 - The display is switched on and the device is 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 dBA.

Note:

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.

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.

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 indication MAX (11) 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 indication MIN (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.

Switch-off

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

- Press the On/Off key (7).
 - The device will be switched off.
 - The MAX and MIN values are reset.

Maintenance and repair

Battery change

A battery change is required, when the displayed values are difficult to read or the device can no longer be switched on. See Inserting the battery on page 3.

Cleaning

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

Repair

Do not modify the device. Never open the device housing or install any spare parts. For repairs or device testing, contact the manufacturer.

Disposal



In the European Union, electronic equipment must not be treated as domestic waste, but must be disposed of professionally in accordance with Directive 2002/96/EC of the European Parliament and Council of 27th January 2003 concerning old electrical and electronic equipment. At the end of its life, please dispose of this instrument in a manner appropriate to the relevant legal requirements.

Declaration of conformity

in accordance with the EC Low Voltage Directive 2006/95/EC and the EC Directive 2004/108/EC about electromagnetic compatibility.

Herewith, we declare that the digital sound level meter BS06 was developed, constructed and produced in compliance with the named EC directives.

The $\text{C} \propto$ marking is found on the rear of the device.

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