



# TROTEC BS30WP Sound Level Measuring Device Controlled Via Smartphone User Manual

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## BS30WP OPERATING MANUAL

SOUND LEVEL MEASURING DEVICE CONTROLLED VIA SMARTPHONE



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## Notes regarding the operating manual

### Symbols



#### **Warning of electrical voltage**

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



#### **Warning**

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



#### **Caution**

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

#### **Note**

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 operating manual must be observed.

You can download the current version of the operating manual and the EU declaration of conformity via the following link:



BS30WP



<https://hub.trotec.com/?id=43338>

## 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 remove any safety signs, stickers, or labels from the device. Keep all safety signs, stickers, and labels in legible condition.
- Do not open the device.
- Never charge batteries that cannot be recharged.
- Different types of batteries and new and used batteries must not be used together.
- Insert the batteries into the battery compartment according to the correct polarity.
- Remove discharged batteries from the device. Batteries contain materials hazardous to the environment. Dispose of the batteries according to national regulations.
- Remove the batteries from the device if you will not be using the device for a longer period of time.
- Never short-circuit the supply terminal in the battery compartment!
- 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**

Use this device in combination with a terminal device that is compatible with the installed Trotec MultiMeasure Mobile app. Only use the device for sound level measurements within the measuring range specified in the technical data. Observe and comply with the technical data. The Trotec MultiMeasure Mobile app on the terminal device is used for both operation and the evaluation of the measured values.

Data logged by the device can be displayed, saved, or transmitted either numerically or in form of a chart. To use the device for its intended use, only use accessories and spare parts which have been approved by Trotec.

### **Foreseeable misuse**

Do not use the device in potentially explosive atmospheres, for measurements in liquids, or on live parts. Radio waves may interfere with the operation of medical equipment and cause malfunctions. Do not use the device near medical equipment or within medical institutions. Persons with pacemakers must observe a minimum distance of

20 cm between the pacemaker and the device. Also do not use the device near automatically controlled systems such as alarm systems and automatic doors. Radio waves may interfere with the operation of such equipment and cause malfunctions. Make sure that no other devices malfunction during the use of your device. Any unauthorized changes, modifications, or alterations to the device are forbidden.

### Personnel qualifications

People who use this device must:

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

### Safety signs and labels on the device

#### Note

Do not remove any safety signs, stickers, or labels from the device. Keep all safety signs, stickers, and labels in legible condition.

The following safety signs and labels are attached to the device:



#### Warning of magnetic field

Information marked with this symbol indicates dangers to the life and health of persons due to magnetic fields.



Disrupted operation or damage to pacemakers and implanted defibrillators caused by the device

This symbol indicates that the device must be kept away from pacemakers or implanted defibrillators.

#### 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 authorized specialist company!



#### Warning



#### Magnetic field!

The magnet attachment can affect pacemakers and implanted defibrillators!

Always keep a minimum distance of 20 cm between the device and pacemakers or implanted defibrillators.

Persons with pacemakers or implanted defibrillators must not carry the device in their breast pocket.



#### Warning

#### Risk of damages or data loss due to magnetic field!

Do not store, carry or use the device in the vicinity of data storage media or electronic devices such as hard drives, television units, gas meters, or credit cards! There is a risk of data loss or damage. If possible, keep the highest safety distance possible (at least 1 m).



#### Warning

Risk of hearing damage!

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



#### Warning

Risk of suffocation!

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



#### 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.

### **Note**

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

### **Note**

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

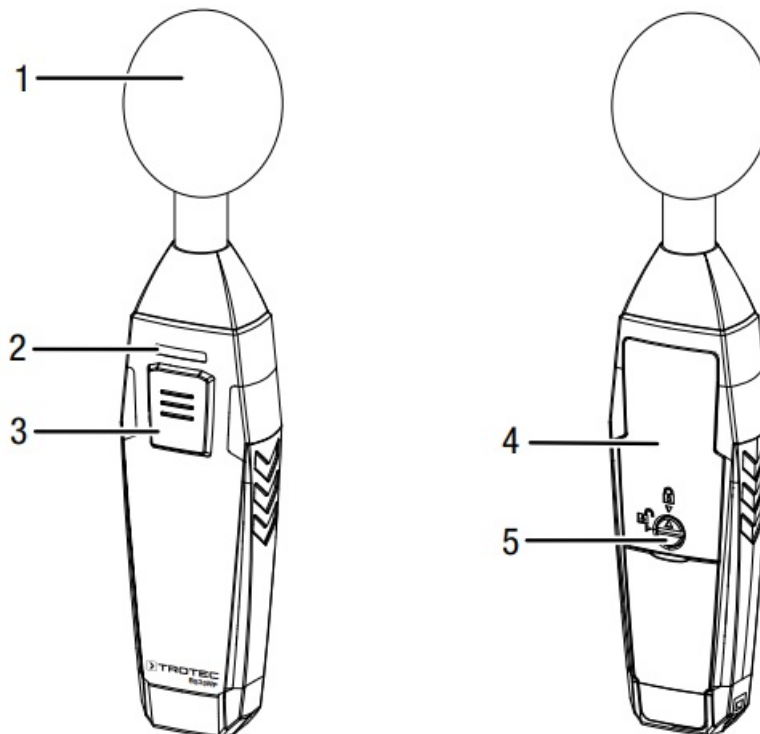
## **Information about the device**

### **Device description**

Used in combination with Trotec's MultiMeasure Mobile app the sound level measuring device permits the measurement of noise emissions.

In case of individual measurements, the measurement value display can be refreshed both via the app and by a brief actuation of the measurement button at the measuring device. Apart from the hold function, the measuring device can indicate minimum, maximum, and average values and carry out series measurements. In the app, you can specify MAX and MIN alarm thresholds for all parameters measured with the device. The measurement results can be displayed and saved on the terminal device either numerically or in form of a chart. Then, the measurement data can be sent in PDF or Excel format. The app also includes a report generation function, an organizer function, one for customer management, and further analysis options. Moreover, it is possible to share measurements and project data with colleagues in another subsidiary. If MultiMeasure Studio Professional is installed on a PC, you can even use report templates and ready-made text blocks for various fields of application to turn the data into professional reports.

### **Device depiction**



No.	Designation
1	Measuring sensor
2	LED
3	On / off / measurement button
4	Battery compartment with cover
5	Lock

## Technical data

Parameter	Value
Model	BS30WP
Measuring range	35 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
Response time	125 ms
<b>General technical data</b>	
Bluetooth standard	Bluetooth 4.0, Low Energy
Transmission power	3.16 mW (5 dBm)
Radio range	approx. 10 m (depending on measuring environment)
Operating temperature	-20 °C to 60 °C / -4 °F to 140 °F
Storage temperature	-20 °C to 60 °C / -4 °F to 140 °F with <80 % RH non-condensing

Power supply	3 x 1.5 V batteries, type AAA
Device switch-off	after approx. 3 minutes without an active Bluetooth connection
Protection type	IP40
Weight	approx. 180 g (incl. batteries)
Dimensions (length x width x height)	110 mm x 30 mm x 20 mm

### Scope of delivery

- 1 x Digital sound level meter BS30WP
- 1 x Windshield for microphone
- 3 x 1.5 V battery AAA
- 1 x Wrist strap
- 1 x Manual

### Transport and storage

#### Note

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



#### Warning

Risk of damages or data loss due to magnetic field! Do not store, carry or use the device in the vicinity of data storage media or electronic devices such as hard drives, television units, gas meters, or credit cards! There is a risk of data loss or damage. If possible, keep the highest safety distance possible (at least 1 m).

#### Transport

When transporting the device, ensure dry conditions and protect the device from external influences e.g. by using a suitable bag.

#### 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
- the storage temperature complies with the values specified in the Technical data
- Remove the batteries from the device.

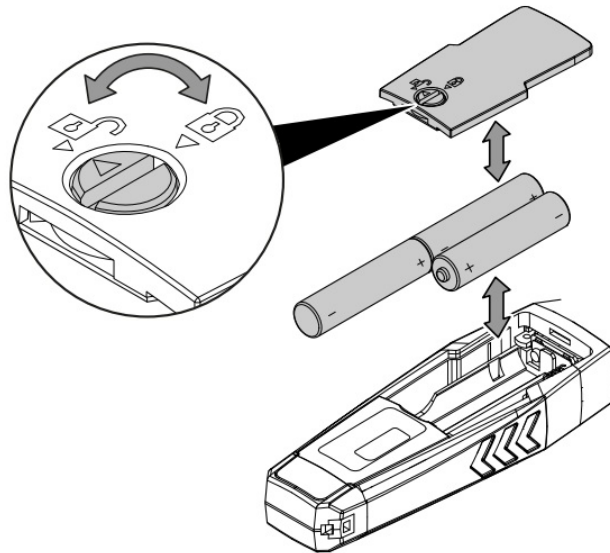
### Operation

#### Inserting the batteries

#### Note

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

1. Unlock the battery compartment by turning the lock (5) in a way that the arrow points towards the opened padlock icon.
2. Remove the cover from the battery compartment (4).
3. Insert the batteries (3 batteries of type AAA) into the battery compartment with correct polarity.
4. Put the cover back onto the battery compartment.
5. Lock the battery compartment by turning the lock (5) in a way that the arrow points towards the closed padlock icon.



### MultiMeasure Mobile app



Install the Trotec MultiMeasure Mobile app on the terminal device you want to use in combination with the device.

#### Info

Some of the app's functions require access to your location and an active Internet connection.

The app is available for download in the Google Play Store as well as in Apple's app store and via the following link:





<https://hub.trotec.com/?id=43083>

### **Info**

Allow for an acclimatization period of about 10 minutes in the respective measuring environment prior to the app sensors measuring operation.

### **Connecting the appSensor**

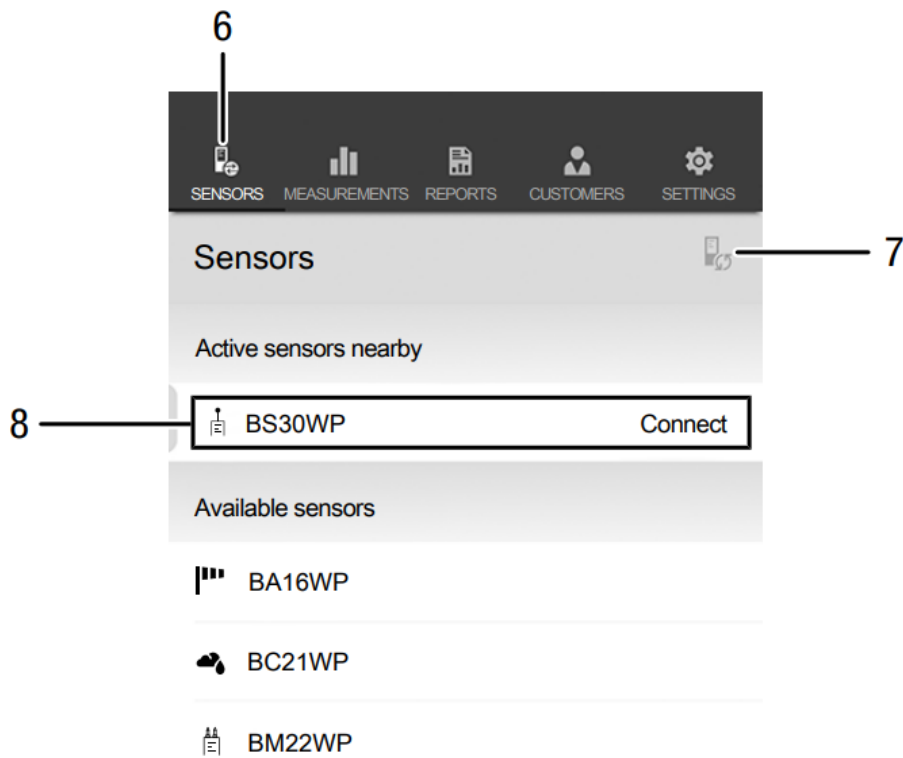
#### **Info**

The app can simultaneously be connected to several different app sensors or app sensors of the same type and also record several measurements at the same time.

Proceed as follows to connect the appSensor to the terminal device:

- ✓ The Trotec MultiMeasure Mobile app is installed.
- ✓ The Bluetooth function on your terminal device is activated.

1. Start the Trotec MultiMeasure Mobile app on the terminal device.
2. Briefly actuate the On / off / measurement button (3) three times to switch on the appSensor.  
⇒ The LED (2) flashes yellow.
3. Press the Sensors button (6) on the terminal device.  
⇒ The sensors overview opens.
4. Press the Refresh button (7).  
⇒ If the scanning mode was not active before, the color of the Refresh button (7) will change from grey to black.  
The terminal device now scans the surroundings for all available app sensors.
5. Press the Connect button (8) to connect the desired sensor to the terminal device.  
⇒ The LED (2) flashes green.  
⇒ The appSensor is connected to the terminal device and starts measuring.  
⇒ The on-screen display changes to the continuous measurement



No.	Designation	Meaning
6	Sensors button	Opens the sensor's overview.
7	Refresh button	Refreshes the list of sensors near the terminal device.
8	Connect button	Connects the displayed sensor to the terminal device.

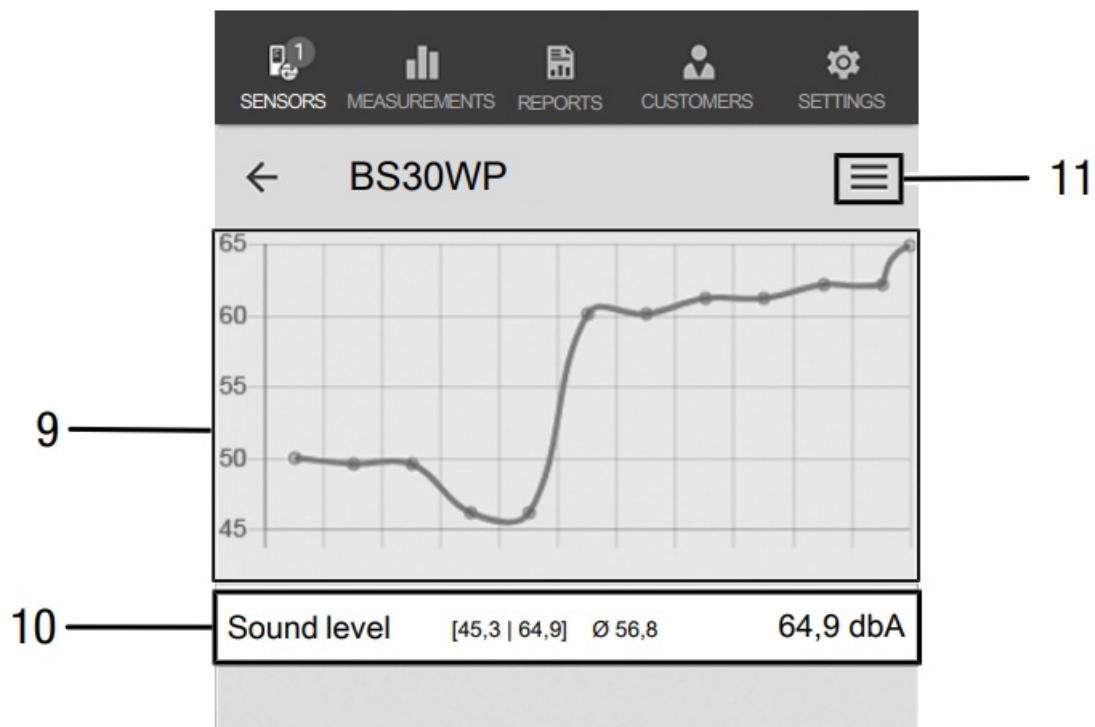
## Continuous measurement



### Info

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 app will either display incorrect measured values or none at all. Wait a few minutes until the device has become adjusted to the changed conditions before carrying out a measurement.

When the appSensor has been successfully connected to the terminal device, continuous measurement is started and indicated. The refresh rate is 1 second. The 12 most recently measured values are displayed graphically (9) in chronological sequence. The currently determined and calculated measured values are displayed numerically (10).



No.	Designation	Meaning
9	Graphic display	Indicates the sound level as measured over the course of time.
10	Numeric display	Indicates the minimum, maximum, and average values for the sound level as well as the current value.
11	Menu button	Opens the menu to adjust the settings of the current measurement.

#### Info

The indicated measured values will not be saved automatically.

#### Info

By tapping on the graphic display (9) you can switch over to the numeric display and vice versa.

### Measurement settings

Proceed as follows to adjust the settings for the measurement:

1. Press the Menu button (11) or the free area below the measured value display.  
⇒ The context menu opens.
2. Adjust the settings as required.



Sound level [45,3 | 64,9] Ø 56,8 64,9 dbA

- Reset min / max / Ø 12
- X/T measurement ☒ 13
- Disconnect sensor 14
- Sensor settings 15
- Start recording 16

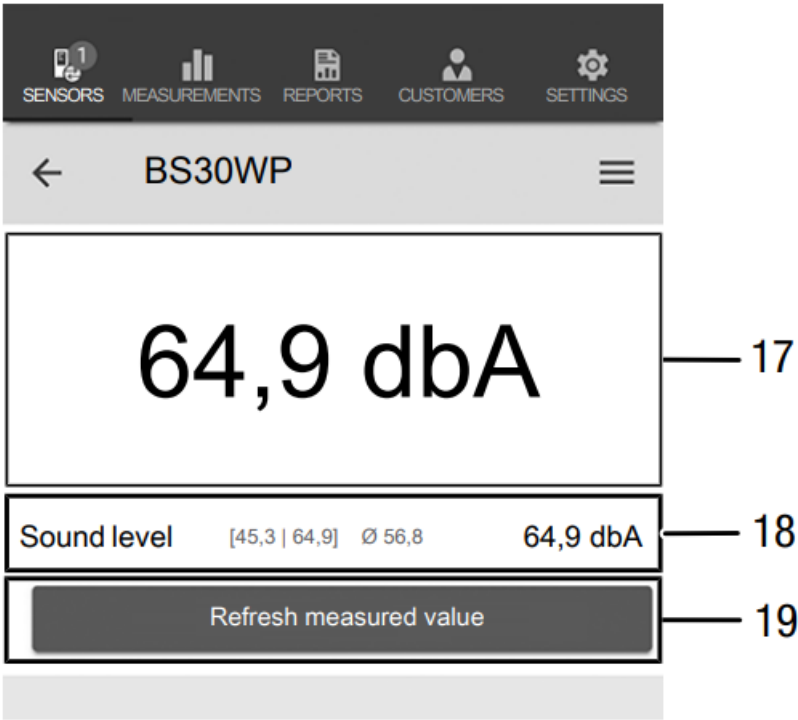
No.	Designation	Meaning
12	Reset min / max / Ø button	Deletes the determined values.
13	X/T measurement button	Switches between continuous measurement and individual measurement.
14	Disconnect sensor button	Disconnects the connected appSensor from the terminal device.
15	Sensor settings button	Opens the settings menu for the connected appSensor.
16	Start recording button	Starts a recording of the determined measured values for later evaluation.

### Individual value measurement

Proceed as follows to select the individual value measurement as measuring mode:

1. Press the Menu button (11) to open the context menu for sensors.
2. Press the X/T measurement button (13) to switch from continuous measurement to individual value measurement.  
⇒ Individual value measurement has been selected as the measuring mode.

- ⇒ Return to the screen displaying the measured values.
- ⇒ The first measured value is automatically determined and displayed.



No.	Designation	Meaning
17	Individual value indication	Indicates the current sound level.
18	Numeric display	Indicates the minimum, maximum, and average values for the sound level as well as the current value.
19	Refresh measured value button	Performs an individual value measurement and refreshes the displays (17) and (18).

### Refreshing the measured value

Proceed as follows to refresh the measured values in the individual value measurement mode:

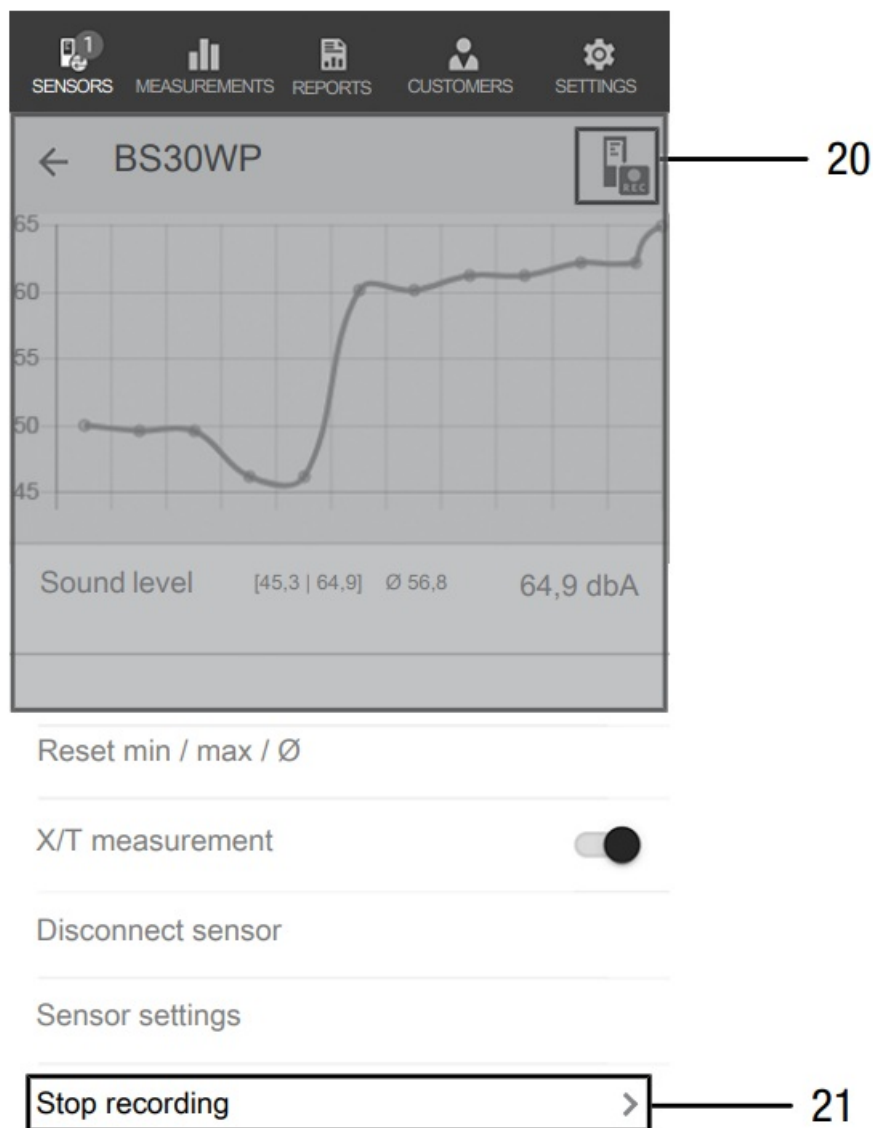
1. Press the Refresh measured value button (19) on the terminal device.  
⇒ The appSensor determines the current measured value which is then displayed on the terminal device.
2. You can also press the On / off / measurement button (3) on the appSensor.  
⇒ The appSensor determines the current measured value which is then displayed on the terminal device.

### Recording measured values

Proceed as follows to record measured values for later evaluation:

1. Press the Menu button (11) or the free area below the measured value display.  
⇒ The context menu for sensors opens.
2. Press the Start recording button (16).  
⇒ The REC button (20) replaces the Menu button (11).
3. If you perform a continuous measurement, the measured values determined from then on will be recorded.
4. If you perform individual value measurements, repeatedly press the On / off / measurement button (3) on the appSensor or the Refresh measured value button (19) on the terminal device until you have logged all the

required measured values.



No.	Designation	Meaning
20	REC button	Opens the sensor settings menu.
21	Stop recording button	Stops the current recording of measured values. Opens the submenu for saving recordings.

### Stopping a recording

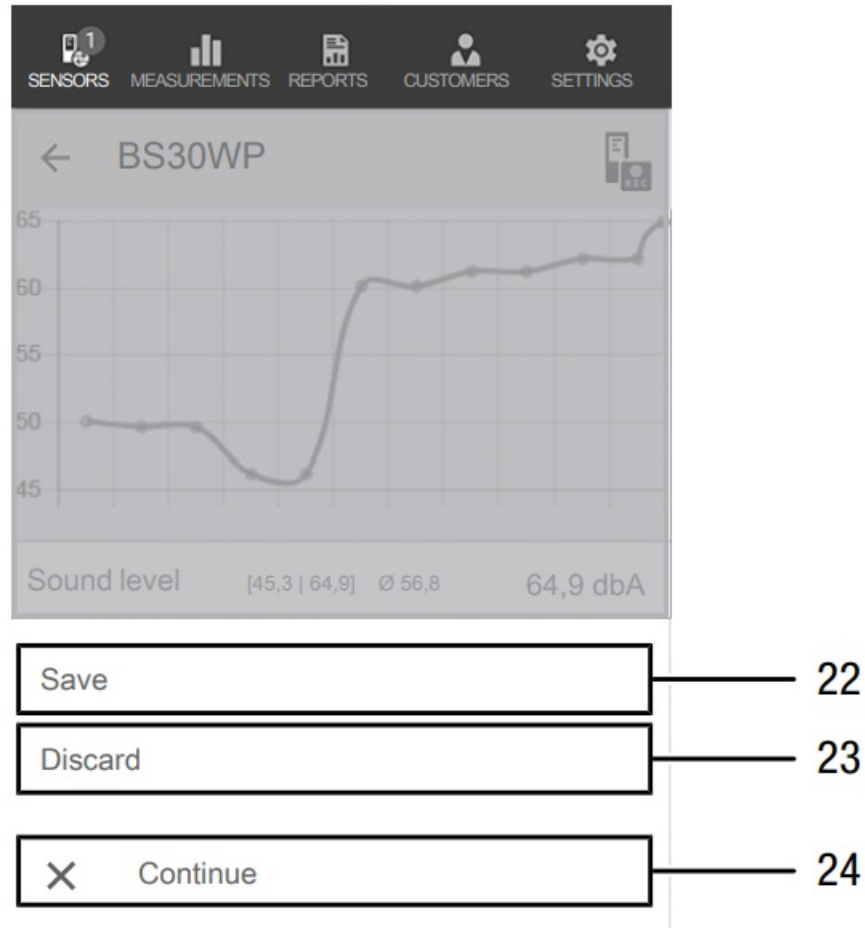
Proceed as follows to stop recording the measured values:

1. Press the REC button (20).  
⇒ The context menu for sensors opens.
2. Press the Stop recording button (21).  
⇒ The context menu for saving the recording opens.
3. You can optionally save, discard or resume the measurement.

### Saving a recording

Proceed as follows to save the recorded measured values:

1. Press the Save button (22) to save the recorded measured values on the terminal device.  
⇒ The input mask for logging the recorded data opens.
2. Enter all the data relevant for an unambiguous assignment, then save the recording.  
⇒ The recording will be saved on the terminal device.

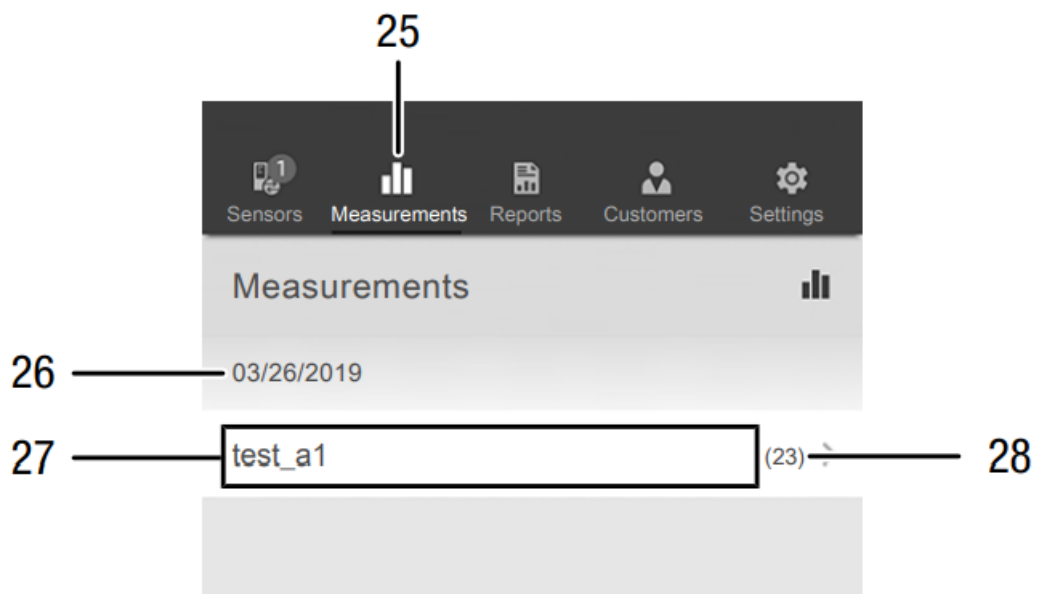


No.	Designation	Meaning
22	Save button	Stops the current recording of measured values. Opens the input mask for logging recording data.
23	Discard button	Stops the current recording of measured values. Discards the recorded measured values.
24	Continue button	Resumes the recording of the measured values without saving.

## Analysing measurements

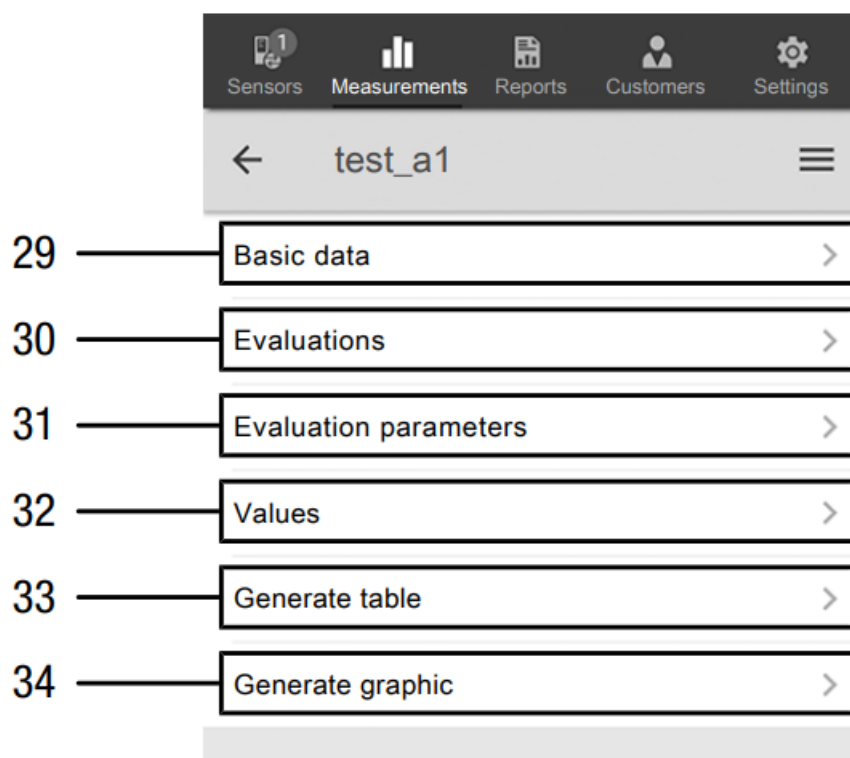
Proceed as follows to call up the saved measurements:

1. Press the Measurements button (25).  
⇒ An overview of already saved measurements will be displayed.
2. Press the Display measurement button (27) for the desired measurement to be indicated.  
⇒ A context menu for the selected measurement opens.



No.	Designation	Meaning
25	Measurements button	Opens the overview of saved measurements.
26	Indication of the date of the measurement	Indicates the date on which the measurement was recorded.
27	Display measurement button	Opens the context menu for the selected measurement.
28	Indication of the number of measured values	Indicates the number of individual measured values constituting the saved measurement.

The following functions can be called up in the context menu of the selected measurement:





No.	Designation	Meaning
29	Basic data button	Opens an overview of the data saved for the measurement.
30	Evaluations button	Opens an overview of the evaluations generated for the measurement (graphics and tables).
31	Evaluation parameters button	Opens a menu to select and deselect individual evaluation parameters.
32	Values button	Opens a tabular overview of all the values logged for the measurement.
33	Generate table button	Creates a table containing the logged values of the measurement and saves it as a *.CSV file.
34	Generate graphic button	Creates a graphic representation of the logged values and saves it as a *.PNG file.



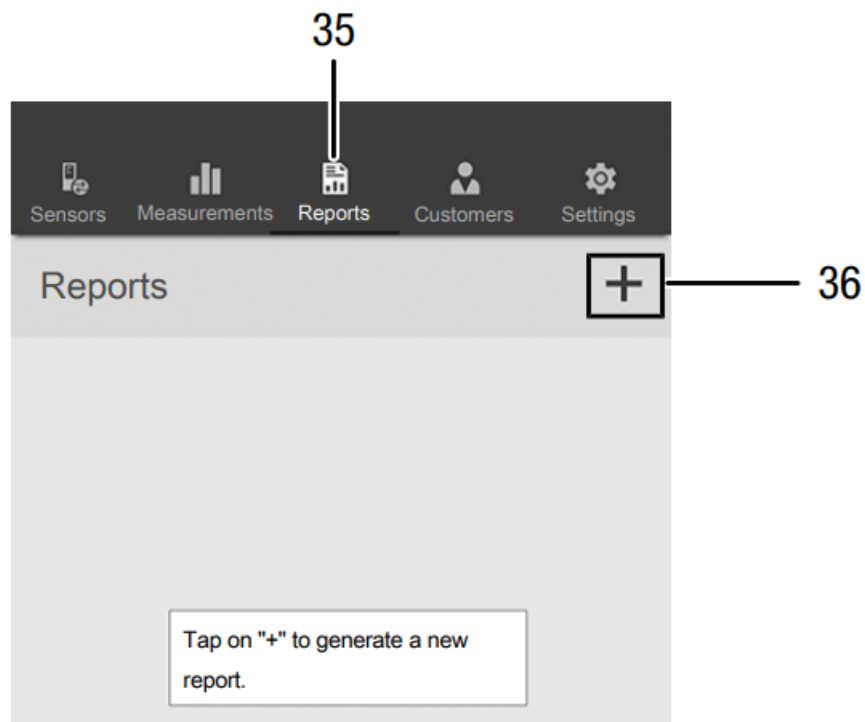
#### Info

If you have saved a previous measurement with certain parameters and then realize, that some parameters are missing, you can subsequently edit them via the menu item Evaluation parameters. They will not be added to the already saved measurement, to be sure, but if you save the measurement again with a different name, these parameters will be added to the initial measurement.

### Generating a report

The reports generated in the MultiMeasure Mobile app are short reports providing fast and simple documentation. Proceed as follows to generate a new report:

1. Press the Reports button (35).  
⇒ The report's overview opens.
2. Press the New report button (36) to create a new report.  
⇒ An input mask for entering all the relevant information opens.
3. Enter the information via the input mask and save the data.

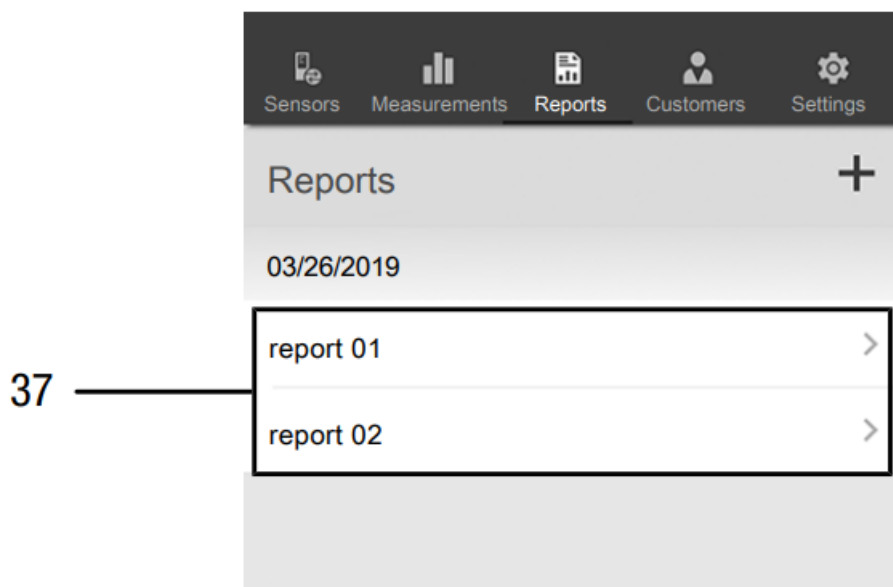


No.	Designation	Meaning
35	Reports button	Opens the overview of saved reports.
36	New report button	Creates a new report and opens an input mask.

### Info

The customer can acknowledge the report directly in the integrated signature field. Calling up a report  
 Proceed as follows to call up a created report:

1. Press the Reports button (35).  
 ⇒ The report's overview opens.
2. Press the corresponding button (37) to display the desired report.  
 ⇒ An input mask opens in which you can view and edit all the information.

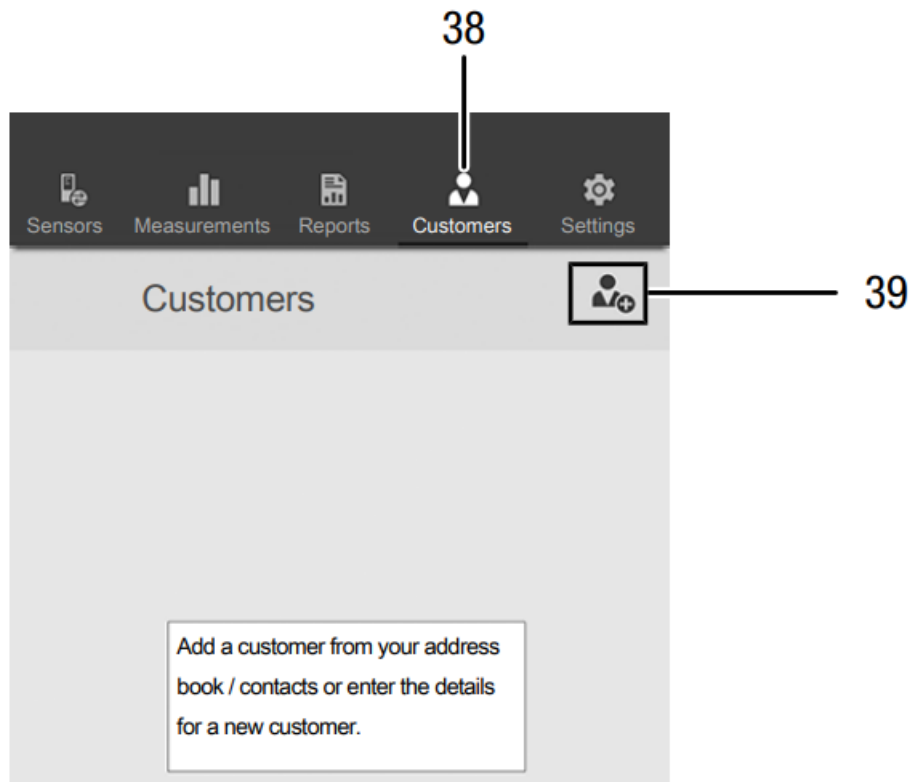


No.	Designation	Meaning
37	Display reports button	Opens the selected report.

## Creating a new customer

Proceed as follows to create a new customer:

1. Press the Customers button (38).  
⇒ The customers overview opens.
2. Press the New customer button (39) to create a new customer.  
⇒ An input mask for entering all the relevant information opens.
3. Enter the information via the input mask and save the data.
4. Alternatively, you can also import existing contacts from the phone book of the terminal device.



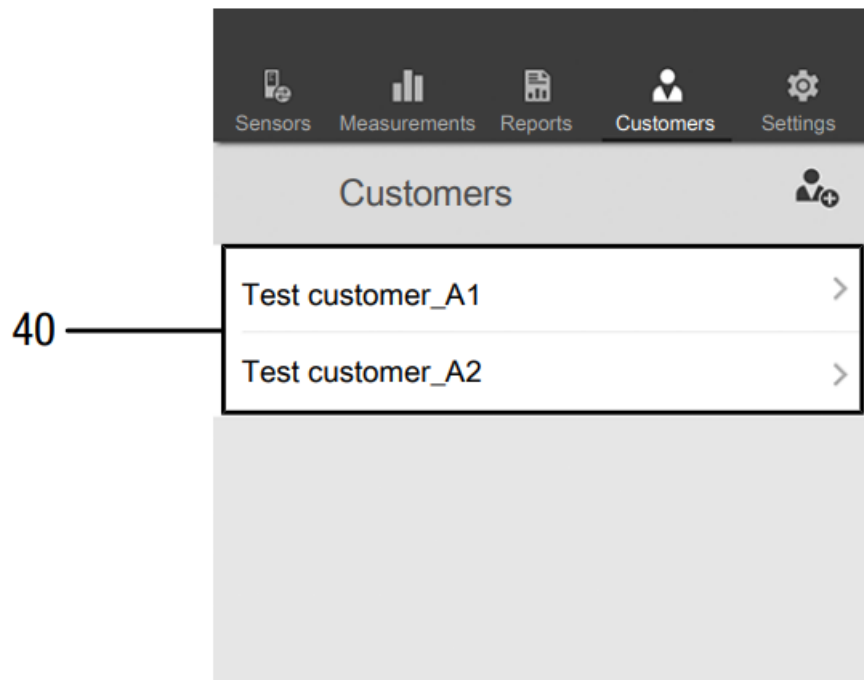
## Info

You can perform a new measurement directly from the input mask.

## Calling up customers

Proceed as follows to call up an already-created customer:

1. Press the Customers button (38).  
⇒ The customers overview opens.
2. Press the corresponding button (40) to display the desired customer's details.  
⇒ An input mask opens in which you can view and edit all the information for the selected customer as well as directly start a new measurement.  
⇒ The New customer button (39) changes. In this menu it can be used to delete the selected customer data record.

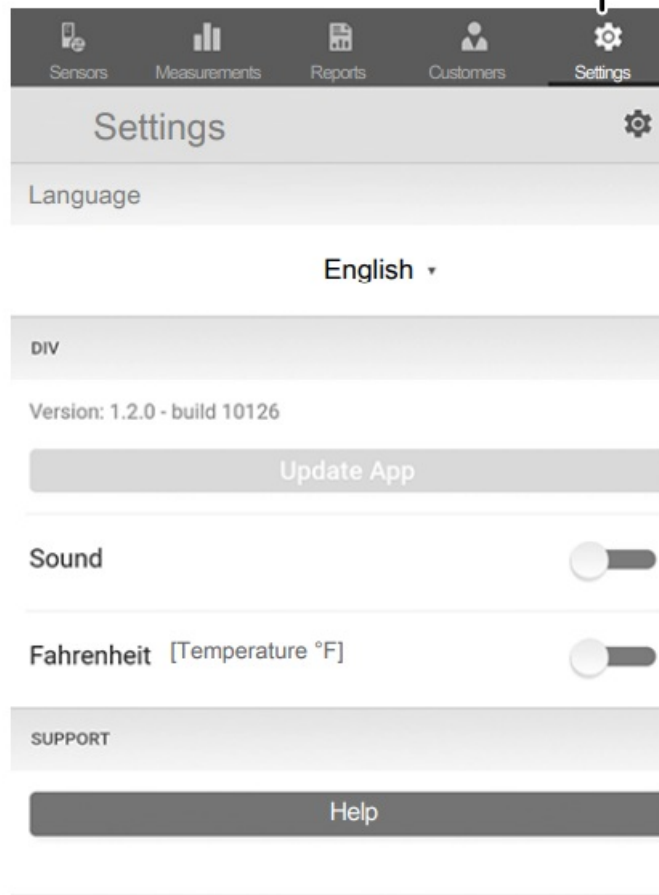


### App settings

Proceed as follows to make settings in the Trotec MultiMeasure Mobile app:

1. Press the settings button (41).  
⇒ The settings menu opens.
2. Adjust the settings as required.

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## appSensor settings

Proceed as follows to adjust the settings for the appSensor:

1. Press the Sensors button (6).  
⇒ A list of connected and available sensors will be displayed.
2. Select the line with the appSensor the settings which you want do adjust and swipe right at the yellow marking.
3. Confirm your input.  
⇒ The sensor menu opens.
4. Alternatively, you can press the Sensors button (6).
5. Press the Menu button (11).  
⇒ The context menu opens.
6. Press the Sensor settings button (15).  
⇒ The sensor menu opens.

## Disconnecting an appSensor

Proceed as follows to disconnect an appSensor from the terminal device:

1. Press the SENSORS button (6).  
⇒ A list of connected and available sensors will be displayed.

2. Select the line with the appSensor to be disconnected and swipe left at the red marking.
3. Confirm your input.  
⇒ The appSensor is now disconnected from the terminal device and can be switched off.
4. Alternatively, you can press the Menu button (11).  
⇒ The context menu opens.
5. Press the Disconnect sensor button (14).
6. Confirm your input.  
⇒ The appSensor is now disconnected from the terminal device and can be switched off.

## **Switching off an appSensor**

### **Info**

Always terminate the connection between appSensor and app before you switch off the appSensor. Proceed as follows to switch off an appSensor:

1. Press and hold the On / off / measurement button (3) for approx. 3 seconds.  
⇒ The LED (2) on the appSensor goes out.  
⇒ The appSensor is switched off.
2. You may now exit the Trotec MultiMeasure Mobile app on the terminal device.

## **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.

### **Bluetooth connection is terminated or interrupted**

- Check whether the LED at the appSensor flashes green. If so, briefly switch it off completely, then turn it back on.  
Establish a new connection to the terminal device.
- Check the battery voltage and insert new or freshly charged batteries, if required.
- Does the distance between the appSensor and the terminal device exceed the app sensors radio range (see chapter Technical data) or are there any solid building parts (walls, pillars, etc.) situated between the appSensor and the terminal device? Shorten the distance between the two devices and ensure a direct line of sight. The sensor cannot be connected to the terminal device although it is displayed there.
- Check the Bluetooth settings of your terminal device. A possible reason for this could be special, manufacturer-specific settings relating to improved location accuracy.  
Enable these settings, then try to establish a connection to the sensor again.

Further information and assistance regarding the used sensor type will be provided in the MultiMeasure Mobile app via the menu item Settings => Help. Selecting the menu item Help opens a link to the app's help page. You can open a drop-down menu with numerous support entries from the Table of contents. Optionally, you can also scroll through the entire help page and thoroughly acquaint yourself with the individual help topics.

## **Maintenance and repair**

### **Battery change**

A battery change is required when the LED at the device flashes red or 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 waste bin on waste electrical or electronic equipment stipulates that this equipment must not be disposed of with the household waste at the end of its life. 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 center for electronic and electrical equipment authorized 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 on the environment and human health caused by the disposal of hazardous substances potentially contained in the equipment.

In the European Union, batteries and accumulators must not be treated as domestic waste but must be disposed of professionally in accordance with Directive 2006/66/EC of the European Parliament and of the Council of 6 September 2006 on batteries and accumulators. Please dispose of batteries and accumulators according to the relevant legal requirements.

### Only for the United Kingdom

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

## Declaration of conformity

We – Trotec GmbH – declare in sole responsibility that the product designated below was developed, constructed, and produced in compliance with the requirements of the EU Radio Equipment Directive in version 2014/53/EU.

Product model/Product:	BS30WP
Product type:	sound level measuring device controlled via smartphone

**Year of manufacture as of: 2019**

**Relevant EU directives:**

- 2001/95/EC: 3 December 2001
- 2014/30/EU: 29/03/2014

**Applied harmonised standards:**

- EN 61326-1:2013

**Applied national standards and technical specifications:**




- EN 300 328 V2.1.1:2016-11
- EN 301 489-1 Draft Version 2.2.0:2017-03
- EN 301 489-17 Draft Version 3.2.0:2017-03
- EN 61010-1:2010
- EN 62479:2010

**Manufacturer and name of the authorized representative of the technical documentation:**

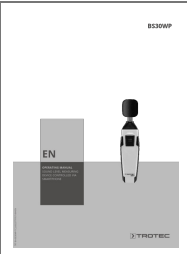
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**Documents / Resources**

	<p><a href="#">TROTEC BS30WP Sound Level Measuring Device Controlled Via Smartphone</a> [pdf] User Manual</p> <p>BS30WP Sound Level Measuring Device Controlled Via Smartphone, BS30WP, Sound Level Measuring Device Controlled Via Smartphone, Level Measuring Device Controlled Via Smartphone, Level Measuring Device, Measuring Device, Device</p>
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