



## TROTEC BN30 Socket Thermostat Instruction Manual

[Home](#) » [TROTEC](#) » TROTEC BN30 Socket Thermostat Instruction Manual 



### BN30 Socket Thermostat Instruction Manual



## Contents

- [1 Notes regarding the operating manual](#)
- [2 Safety](#)
- [3 Information about the device](#)
- [4 Transport and storage](#)
- [5 Operation](#)
- [6 Maintenance and repair](#)
- [7 Disposal](#)
- [8 Documents / Resources](#)
- [9 Related Posts](#)

## 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:



BN30



<https://hub.trotec.com/?id=39943>

## 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.

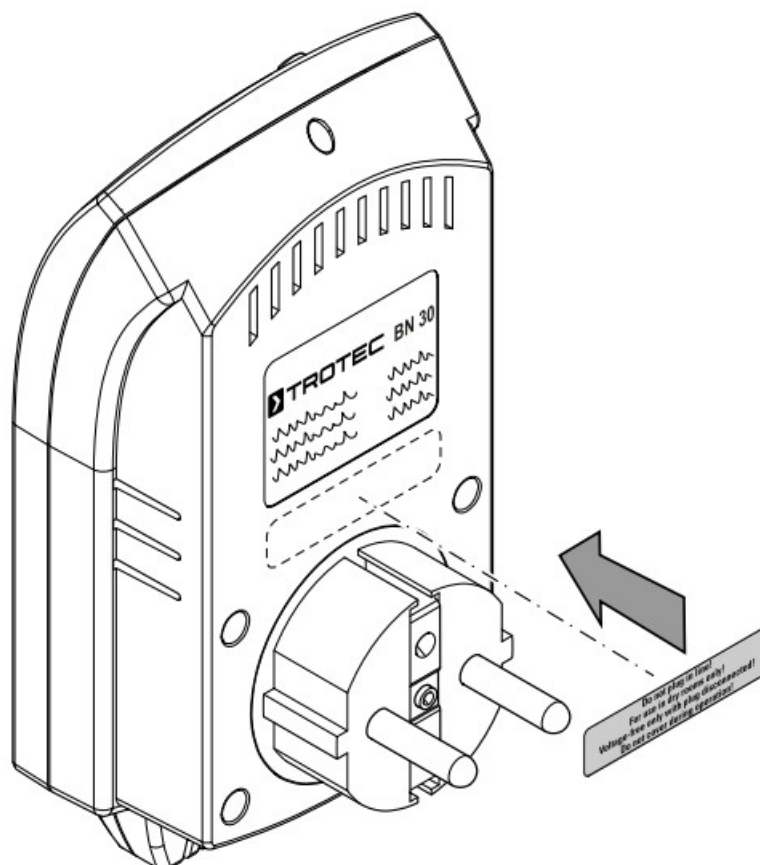
#### **Save all warnings and instructions for future reference.**

This appliance can be used by children aged from 8 years and above and persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge if they have been given supervision or instruction concerning use of the appliance in a safe way and understand the hazards involved.

Children shall not play with the appliance. Cleaning and user maintenance shall not be made by children without supervision.

- The device is supplied with a warning sign. Prior to initial start-up, make sure to paste the corresponding warning sign in your local language over the one present at the rear of the device.

**Do not plug in line! For use in dry rooms only! Voltage-free only with plug disconnected! Do not cover during operation!**



- Do not use the device in potentially explosive rooms or areas and do not install it there.
- Do not use the device in aggressive atmosphere.
- Do not use the device with wet or damp hands.
- This appliance is not a toy! Keep away from children and animals. Do not leave the device unattended during operation.

- 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.
- Do not open the device.
- Do not connect several devices by plugging one into another.
- Only operate the device in dry surroundings.
- Please note that the device is only de-energized when the plug has been disconnected from the mains.
- Observe the storage and operating conditions as given in the Technical data chapter.

### **Intended use**

Only use the device as temperature-controlled plug adapter between the power connection and the terminal device whilst adhering to the technical data.

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

### **Foreseeable misuse**

The device is not suitable for use with any type of extension cables. The device must not be used in potentially explosive areas, when wet or very humid.

### **Personnel qualifications**

People who use this device must:

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

### **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**

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.

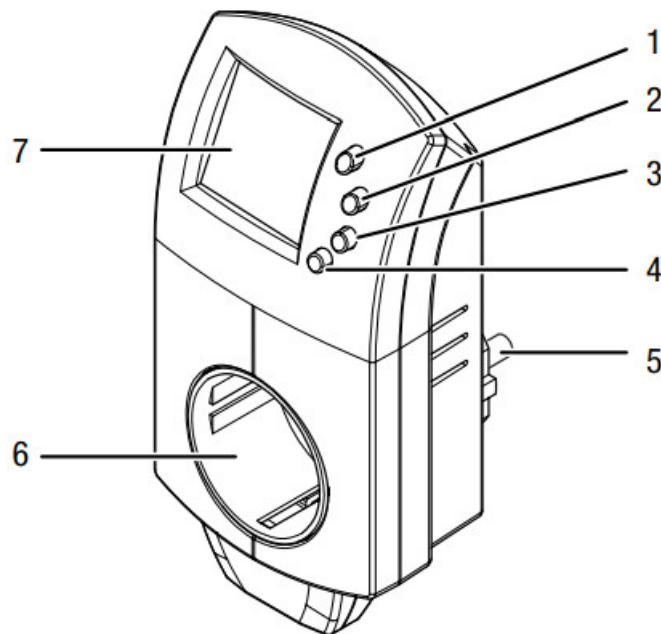
**Information about the device****Device description**

The thermostat BN30 enables the temperature control of heating devices and air conditioners from 5 °C to 49 °C. To this end, simply plug the socket thermostat in between the heating device or air conditioner and a socket, and select the desired temperature. Via its integrated sensors, the device measures the current room temperature and regulates the heating device or air conditioner according to the desired nominal value.

The extremely simple handling and programming of the device enable a multitude of possible applications – for example, the device is particularly well suited for mobile heaters.

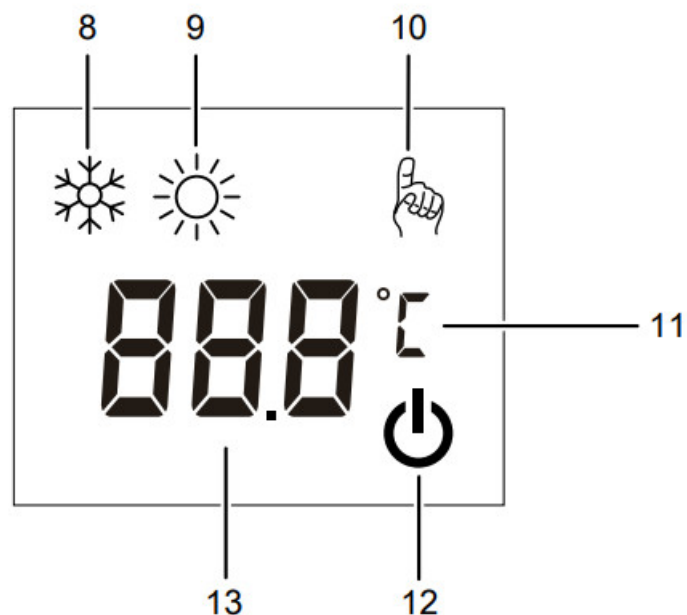
The respective current room temperature can be read from the large display.

The device is also power failure-proof thanks to an integrated EEPROM.

**Device depiction**

No.	Designation
1	SET button
2	UP button
3	DOWN button
4	Power button
5	Socket connection
6	Connection for the terminal device (plug adapter)
7	Display

**Display**



No.	Designation
8	Cooling mode indication
9	Heating mode indication
10	SET indication
11	°C / °F indication
12	OFF indication
13	Target value or current room temperature display

## Technical data

Parameter	Value
Model	BN30
Weight	220 g
Dimensions (height x width x depth)	140 x 60 x 75 mm
Temperature setting range	5 °C to 49 °C (41 °F bis 85 °F) in increments of 0.5
Operating conditions	-10 to 70 °C
Measuring interval	10 s
Power supply	230 V AC / 50 Hz
Load (max.)	16 A / 3680 VA – ohmic load 2 A / 460 VA – inductive load

## Scope of delivery

- 1 x Socket thermostat BN30

- 1 x Quick guide

## 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.

### 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
- with a cover to protect it from invasive dust if necessary
- The storage temperature is the same as the range given in the Technical data chapter.

## Operation

The target temperature value is preset to 20 °C by default and the device starts in heating mode.

### Switching the device on

1. Plug the device into a properly fused socket.
2. Connect the terminal device.
3. Press the power button (4).
  - ⇒ The device is switched on.
  - ⇒ The power symbol (12) does not appear on the display.

### Setting the mode

#### Note:

If the desired temperature is lower than the room temperature, please use the cooling mode. If the desired temperature is higher than the room temperature, please use the heating mode.

✓ The device is switched off.

1. Press the DOWN button (3) for approx. 5 s to switch between heating and cooling mode.

### Changing the unit °C / °F

✓ The device is switched on.

1. Press the SET button (1) for approx. 5 s to change the temperature unit from degrees Celsius to degrees Fahrenheit or vice versa.

### Setting the target temperature value

#### Cooling mode:

In cooling mode the target temperature value should be 2 °C below the room temperature, otherwise the plug adapter will not be switched on by the device. If the room temperature is smaller than the set value, the device switches the plug adapter off.

✓ **Cooling** mode is switched on.

1. Press the buttons UP (2) or DOWN (3) to set the target temperature.

⇒ The SET indication (10) flashes.

2. Wait until the SET indication (10) no longer flashes.

⇒ The set value is saved.

⇒ The cooling mode indication (8) flashes.

⇒ After approx. one minute the device switches on the plug adapter.

### **Heating mode:**

In heating mode the target temperature value should be 1 °C above the room temperature, otherwise the plug adapter will not be switched on by the device. If the room temperature is larger than the set value, the device switches the plug adapter off.

✓ **Heating** mode is switched on.

1. Press the buttons UP (2) or DOWN (3) to set the target temperature.

⇒ The SET indication (10) flashes.

2. Wait until the SET indication (10) no longer flashes.

⇒ The set value is saved.

⇒ The heating mode indication (9) flashes.

⇒ After approx. one minute the device switches on the plug adapter.

### **Setting the room temperature offset**

#### **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.

With this device it is possible to set an offset value (zero offset of the temperature curve). This can be useful when the ambient temperature measured by the thermostat after a period of acclimatization still deviates excessively with regard to an existing, precise reference thermometer.

✓ The device is switched off.

1. Press the SET button (1) for approx. 5 s to access the settings menu.

⇒ The SET indication (10) flashes.

2. Press the buttons UP (2) or DOWN (3) to set the offset.

3. Once the offset is adjusted, return to the ambient temperature display by pressing the SET button (1) several times. In doing so, skip various menu items which are irrelevant for the device at hand.

### **Switching the device off**

1. Press the power button (4).

⇒ The OFF indication (12) appears on the display.

⇒ The plug adapter is switched off regardless of the target value and current room temperature



## Maintenance and repair

### 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

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. For further return options provided by us please refer to our website <https://de.trotec.com/shop/>.

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.

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## Documents / Resources

	<p><a href="#">TROTEC BN30 Socket Thermostat</a> [pdf] Instruction Manual BN30, Socket Thermostat, BN30 Socket Thermostat</p>
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