

EN

INSTRUCTIONS
THERMOHYGROMETER





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Information on the use of these instructions

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.

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 the instructions and the EU declaration of conformity via the following link:



TC100



https://hub.trotec.com/?id=41859

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 AAA.
- 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. Batteries contain materials hazardous to the environment. Dispose of the batteries according to the 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.
- Observe the storage and operating conditions (see Technical data).

Intended use

Only use the device for indoor temperature and humidity measurements within the measuring range specified in the technical data. Observe and comply with 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 or at live parts.

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.

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.

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

The thermohygrometer TC100 can be used to determine the air, dew point and wet-bulb temperature as well as the humidity level and air pressure of indoor areas.

For assessing the measurements, a Max/Min function (maximum and minimum value), an average value and a Hold function for freezing the currently measured value are also available. In addition, up to 99 measurements can be saved on the device.

Moreover, the heat index (HI), the apparent temperature (WBGT index) and the globe temperature (GT) can be determined. A configurable alarm function issues a warning as soon as a certain value is exceeded.

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

Heat index

The heat index, also referred to as humidex, is an indicator developed in the 1970s by the American Steadman. It describes the combined effect of temperature and (high) humidity levels on the human body.

The higher the relative humidity, the worse or slower does the moisture (perspiration) emitted by the human body evaporate as the ambient air can only absorb little additional moisture.

This evaporation, however, is necessary for the human organism to be able to regulate itself in case of strong heat or physical exertion and to keep the core body temperature on a healthy level. If this natural cooling mechanism is slowed down, the body can no longer discharge the generated heat properly, which results in so-called heat stress. Overheating or heat strokes can be among the health consequences.

Even without any physical effort, high temperatures combined with high humidity levels (muggy heat) are therefore generally considered as unpleasant, while high temperatures and low humidity values are more tolerable.

Sweating and the associated cooling effect are thus vitally important for both humans and many mammals, and are indispensable for the physical well-being.

Wet-bulb globe temperature index (WBGT index)

The wet-bulb globe temperature index is a climate index developed by the US army as early as in the 1950s. It serves to specify the effects of the current climate on the human body.

Unlike the heat index, the WBGT does not only incorporate the air temperature (dry-bulb temperature) and humidity level, but also the wind speed, the wet-bulb and radiation temperature (globe temperature) for assessing the outdoor thermal stress.

The wet-bulb temperature (or theoretical limit of cooling) is the lowest temperature that can be reached through direct evaporative cooling only. It is determined by wrapping a cotton cloth soaked with distilled water around the measuring tip or mercury bulb of a thermometer and then exposing it to the environment. The cooling effect achieved by the evaporated water can thus be measured and simulated for the perspiring human body under these conditions.

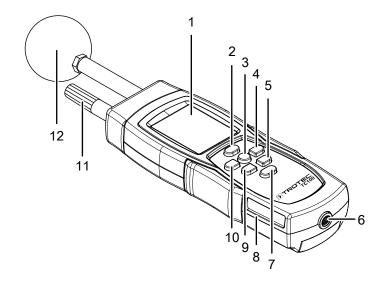
The radiation temperature, which is also taken into consideration, is measured inside a thin-walled matt black globe reacting to the infrared heat radiation emitted by the sun.

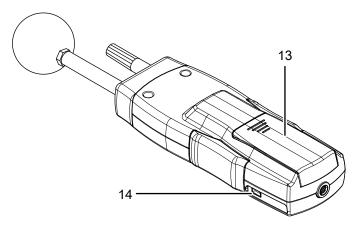
When calculating the WBGT in indoor areas or outdoor areas exposed to negligible amounts of sunlight, it can be assumed that the radiation temperature has practically no influence. In this case, the globe temperature is assumed to be identical with the ambient temperature.

Therefore, the WBGT index is another indicator for determining the climate effects on the human organism. It is, however, even more informative than the heat index since additional parameters are included in the calculation. Established as an international standard, it is described in ISO 7243 and DIN EN 27243.



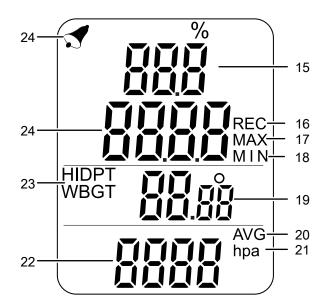
Device depiction





No.	Designation			
1	Display			
2	HOLD button			
3	Power button			
4	MAX/MIN button			
5	<i>UNIT</i> button			
6	Tripod thread			
7	Lamp / pressure unit button			
8	Connector for the power adapter			
9	SET button			
10	MODE button			
11	Measuring sensor for humidity			
12	Black globe measuring head			
13	Battery compartment with cover			
14	Mini USB port			

Display



No.	Indication	Meaning
15	Humidity	Measured humidity value in percent
16	REC	Measured value is saved. Data memory is opened.
17	Max	Highest values since the start of measurement are displayed.
18	Min	Lowest values since the start of measurement are displayed.
19	Index	Mixing indicator for: • heat index (HI) • dew point temperature (DPT) • wet-bulb temperature (WB) • globe temperature (GT) • WBGT index
20	AVG	The average of the values recorded since the start of the measurement is displayed.
21	Air pressure unit	Unit of the air pressure displayed in (22) • hpa • inHg • mmHg
22	Air pressure	Measured air pressure value
23	Measuring mode	Type of measured value displayed in (19)
24	Air temperature	Measured air temperature value in °C or °F
25	Alarm	Alarm for WBGT index is active.



Technical data

Parameter	Value		
Model	TC100		
Article number	3.510.007.010		
Weight incl. batteries	215 g		
Dimensions (length x width x height)	162 mm x 58 mm x 32 mm		
Temperature			
Measuring range	0 °C to +50 °C or 32 °F to 122 °F		
Accuracy	±0.6 °C (0 °C to +50 °C)		
Measuring range resolution	0.1 °C or 0.1 °F		
Relative humidity			
Measuring range	0.0 % RH to 99.9 % RH		
Accuracy	± 3 % RH (10 % to 70 %) ± 5 % RH (0 % to 10 % and 70 % to 99.9 %)		
Measuring range resolution	0.1 % RH		
Reaction time	<15 s		
Type of protection	IP54		
Operating conditions	0 °C to 50 °C, <80 % RH (non-condensing)		
Storage conditions	-20 °C to 50 °C, <90 % RH (non-condensing)		
Air pressure			
Measuring range	300 to 1100 hPa		
Accuracy	±1.5 hPa		
Measuring range resolution	0.1:300.0 to 999.9 hPa; 1:1000 to 1100 hPa		
Globe temperature			
Measuring range	0 to 80 °C (32 to 176 °F)		
Accuracy	±0.6 °C (20 to 50 °C), otherwise ±1 °C		
WBGT			
Indoor measuring range	+15 °C to +59 °C		
Accuracy	±1 °C		
Outdoor measuring range	+15 °C to +56 °C		
Accuracy	±1.5 °C		
Automatic switch-off	after approx. 15 minutes		
Power supply	4 AAA batteries		

Scope of delivery

- 1 x Device TC100
- 1 x Quick guide
- 1 x Calibration certificate

Application of HI and WBGT index

In the course of sports events, for instance, both the HI (heat index) and the WBGT index (wet-bulb globe temperature index) are increasingly used as an indication for a potential physical stain and associated hazards.

WBGT index

Colour of warning flag	Risk	Effect	WBGT °C	WBGT °F		
Black	Extreme	Overheating	above 28 °C	above 82 °F		
Red	High		23 °C to 28 °C	73 °F to 82 °F		
Yellow	Moderate		18 °C to 22 °C	65 °F to 72 °F		
Green	Low		below 18 °C	below 65 °F		
White	Increasing	Super- cooling	below 10 °C	below 50 °F		
Source: American College of Sports Medicine						



Info

The index is only intended to provide a basis of information. Personal perceptions and heat-related effects may differ.



HI (heat index)

	25%	30%	35%	40%	45%	50%	55%	60%	65%	70%	75%	80%	85%	90%	95%	100%
42°	48	50	52	55	57	59	62	64	66	68	71	73	75	77	80	82
41°	46	48	51	53	55	57	59	61	64	66	68	70	72	74	76	79
40°	45	47	49	51	53	55	57	59	61	63	65	67	69	71	73	75
39°	43	45	47	49	51	53	55	57	59	61	63	65	66	68	70	72
38°	42	44	45	47	49	51	53	55	56	58	60	62	64	66	67	69
37°	40	42	44	45	47	49	51	52	54	56	58	59	61	63	65	66
36°	39	40	42	44	45	47	49	50	52	54	55	57	59	60	62	63
35°	37	39	40	42	44	45	47	48	50	51	53	54	56	58	59	61
34°	36	37	39	40	42	43	45	46	48	49	51	52	54	55	57	58
33°	34	36	37	39	40	41	43	44	46	47	48	50	51	53	54	55
32°	33	34	36	37	38	40	41	42	44	45	46	48	49	50	52	53
31°	32	33	34	35	37	38	39	40	42	43	44	45	47	48	49	50
30°	30	32	33	34	35	36	37	39	40	41	42	43	45	46	47	48
29°	29	30	31	32	33	35	36	37	38	39	40	41	42	43	45	46
28°	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43
27°	27	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41
26°	26	26	27	28	29	30	31	32	33	34	34	35	36	37	38	39
25°	25	25	26	27	27	28	29	30	31	32	33	34	34	35	36	37
24°	24	24	24	25	26	27	28	28	29	30	31	32	33	33	34	35
23°	23	23	23	24	25	25	26	27	28	28	29	30	31	32	32	33
22°	22	22	22	22	23	24	25	25	26	27	27	28	29	30	30	31

up to 29 °C	No discomfort			
30 °C to 34 °C	Slight discomfort			
35 °C to 39 °C	Caution: Limit intensive physical activity			
40 °C to 45 °C Warning: Avoid physical activity				
46 °C to 53 °C Danger: Overheating, stop all activities				
above 54 °C Danger: Potentially fatal heat stroke				
Source: www.eurometeo.com				



Info

The index is only intended to provide a basis of information. Personal perceptions and heat-related effects may differ.



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

The manufacturer packed the device to the best of his abilities to protect it against transport damage.

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
- at the temperature specified in the technical data
- Batteries are removed from the device

Operation

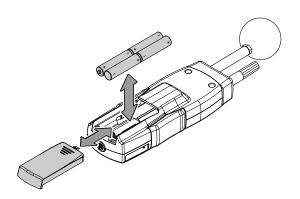
Inserting the batteries

Insert the appropriate batteries before first use.

Notice

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

- 1. Open the battery compartment by sliding open the cover (13) with your fingers.
- 2. Remove the battery compartment cover.
- 3. Insert the batteries with correct polarity.
- 4. Slide the cover back onto the battery compartment.



Switch-on and measurements

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.

- 1. Briefly press the *Power* button (3).
 - ⇒ The display will be activated and depending on the previously used settings either "Indoor" or "Outdoor" will be displayed for the WBGT measuring mode.
 - ⇒ An acoustic signal will be emitted, then the device is ready for operation.
 - ⇒ The GT measuring mode (23) and the currently measured globe temperature value (19) will be displayed.
- 2. Point the device at the area to be measured.
 - ⇒ After a few moments, a stable measured value is displayed.



Selecting the measuring mode

After switch-on, the device will initially display the globe temperature (GT) (23).

The following measuring modes are available:

Measuring mode	Description
WBGT	Wet-bulb globe temperature index (WBGT index)
HI	Heat index
DPT	Dew point temperature
WB	Wet-bulb temperature
GT	Globe temperature

The air pressure (22), the ambient temperature (24) and the humidity value (15) are also displayed in every measuring mode.

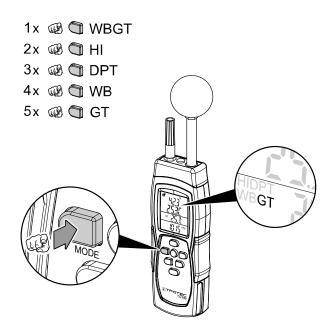


Info

With activated MAX/MIN/AVG functions you cannot change the measuring mode. Deactivate the functions by pressing the *MAX/MIN* button (4) several times until the MAX/MIN/AVG indication (17/18/20) disappears from the display.

Please proceed as follows to set the measuring mode:

 Press the MODE button (10) repeatedly until the Measuring mode indication (23) shows the corresponding abbreviation.



Using the HOLD function

The HOLD function can be used to temporarily record the measured values as follows:

- 1. Press the *HOLD* button (2).
 - ⇒ The current value will be held.
- 2. Press the *HOLD* button (2) again.
 - \Rightarrow The display again indicates the current measured value.

Setting the MAX/MIN/AVG functions



Info

These functions can only be used in the *GT* measuring mode.

You can view the highest, lowest or average value for ambient temperature, relative humidity and globe temperature from the current measuring interval.

To do so, please proceed as follows:

- 1. Briefly press the MAX/MIN button (4).
 - \Rightarrow The indication *MAX* (17) appears on the display.
 - ⇒ The display now indicates the highest value for ambient temperature, relative humidity and globe temperature measured in the selected measuring mode since the device was switched on.
- 2. Press the MAX / MIN button (4) again.
 - ⇒ The MIN indication (18) appears on the display.
 - ⇒ The display now indicates the lowest value for ambient temperature, relative humidity and globe temperature measured in the selected measuring mode since the device was switched on.
- 3. Press the MAX / MIN button (4) again.
 - \Rightarrow The indication *AVG* (20) appears on the display.
 - ⇒ The display now indicates the mean value for ambient temperature, relative humidity and globe temperature measured in the selected measuring mode since the device was switched on.
- 4. Press the MAX / MIN button (4) again.
 - ⇒ The display again indicates the current measured value.

Clear MAX/MIN/AVG memory

The measurement memory for the MAX/MIN/AVG functions can be set to zero.

To do so, please proceed as follows:

- 1. Press and hold the *MAX/MIN* button (4) for approx. 3 seconds.
 - \Rightarrow *CLr*" appears at the bottom of the display.
 - ⇒ The measured values for MAX/MIN/AVG are reset.
 - ⇒ Then the device returns to the normal measuring mode.

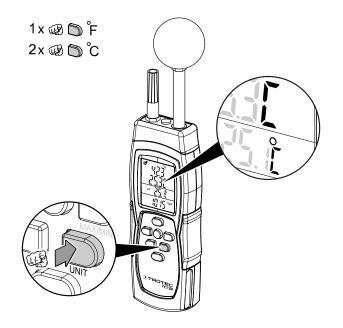


Changing the temperature unit

The default setting for the temperature unit is °C.

Please proceed as follows to change the temperature unit:

- 1. Press the *UNIT* button (5) to change the unit.
 - ⇒ The currently selected unit °C or °F is shown on the *Air temperature* (24) and *Index* (19) display.



Setting the indoor / outdoor function

In the *WBGT* measuring mode you can improve the accuracy of your measuring results by selecting Indoor or Outdoor with respect to the measuring location.

The calculation differs as follows:

Measuring mode	Formula:
Indoor	0.7 x WB + 0.3 x GT
Outdoor	0.7 x WB + 0.2 x GT + 0.1 x air temperature

Please proceed as follows to switch the measuring mode:

- 1. Press and hold the *UNIT* button (5)) for approx. 3 seconds whilst in the *WBGT* measuring mode.
 - ⇒ The current setting "Indoor" or "Outdoor" will be briefly visible in the lower half of the display.

Changing air pressure unit

Three measuring units are available to display the determined air pressure values: hPa / inHg / mmHg. Please proceed as follows to switch between these units:

- 1. Briefly press the *Lamp /pressure unit* button (7).
 - ⇒ The currently selected measuring unit for air pressure will be displayed in the indication of the Air pressure unit (21).

Setting the air pressure threshold value

The air pressure threshold value can be manually adjusted at the device. In case you detect a regular inaccuracy / deviation of the indicated pressure values, the indication can be adjusted within a range of ± 3 hPa around the zero point. To adjust the value, please proceed as follows:

- 1. Press and hold the SET button (9) for approx. 3 seconds.
 - ⇒ The currently set air pressure threshold value flashes on the display.
- 2. Press the *HOLD* button (2) to increase the value in steps of 0.1
- 3. Press the *Lamp / pressure unit* button (7) to reduce the value in steps of 0.1.
- 4. Press and hold the *Power* button (3) for approx. 3 seconds to save the selected value.
 - ⇒ The message "Save" will briefly appear on the display to confirm that the selected air pressure threshold value has been set.

Setting the threshold values for globe temperature, relative humidity and ambient temperature

The thresholds for the globe temperature, relative humidity and ambient temperature measurements can be manually adjusted at the device. In case you detect a regular inaccuracy / deviation of the thresholds, these values can be adjusted within a range of ± 9.9 °C, ± 9.9 °F and ± 9.9 % around the zero point. To adjust the values, please proceed as follows:

Globe temperature

- ✓ The device is switched off.
- 1. Simultaneously press and hold the *MODE* button (10) and the *Lamp / pressure unit* button (7), then briefly actuate the *Power* button (3) as well.
 - \Rightarrow The value "0.0" will appear on the display.
- 2. Let go of the *MODE* (10) and the *Lamp / pressure unit* button (7).
- 3. Now you can increase the globe temperature threshold by holding down the *UNIT* button (5) and briefly actuating the *HOLD* button (2) as well.
 - ⇒ The threshold value will increase in steps of 0.1.
- 4. You can reduce the globe temperature threshold by holding down the *UNIT* button (5) and briefly actuating the *Lamp* / pressure unit button (7) in addition.
 - ⇒ The threshold value will decrease in steps of 0.1.
- 5. Simultaneously press the *MODE* (10) and the *Power* button (3) to save the adjusted threshold value.
 - ⇒ The message "Save" will briefly appear on the display to confirm that the selected threshold value has been set
- 6. Now switch the device off and back on to proceed with the changed settings.



Ambient temperature

- ✓ The device is switched off.
- 1. Simultaneously press and hold the *MODE* button (10) and the *Lamp / pressure unit* button (7), then briefly actuate the *Power* button (3) as well.
 - \Rightarrow The value "0.0" will appear on the display.
- 2. Let go of the *MODE* (10) and the *Lamp / pressure* unit button (7).
- 3. Now you can increase the ambient temperature threshold by holding down the *SET* button (9) and briefly actuating the *HOLD* button (2) as well.
 - ⇒ The threshold value will increase in steps of 0.1.
- 4. You can reduce the ambient temperature threshold by holding down the *SET* button (9) and briefly actuating the *Lamp / pressure unit* button (7) in addition.
 - ⇒ The threshold value will decrease in steps of 0.1.
- 5. Simultaneously press the *MODE* (10) and the *Power* button (3) to save the adjusted threshold value.
 - ⇒ The message "Save" will briefly appear on the display to confirm that the selected threshold value has been set.
- 6. Now switch the device off and back on to proceed with the changed settings.

Relative humidity

- ✓ The device is switched off.
- Simultaneously press and hold the MODE button (10) and the Lamp / pressure unit button (7), then briefly actuate the Power button (3) as well.
 - \Rightarrow The value "0.0" will appear on the display.
- 2. Let go of the *MODE* (10) and the *Lamp / pressure* unit button (7).
- 3. Now you can increase the relative humidity threshold by holding down the *MAX/MIN* button (4) and briefly actuating the *HOLD* button (2) as well.
 - ⇒ The threshold value will increase in steps of 0.1.
- 4. You can reduce the relative humidity threshold by holding down the *MAX/MIN* button (4) and briefly actuating the *Lamp / pressure unit* button (7) in addition.
 - ⇒ The threshold value will decrease in steps of 0.1.
- 5. Simultaneously press the *MODE* (10) and the *Power* button (3) to save the adjusted threshold value.
 - ⇒ The message "Save" will briefly appear on the display to confirm that the selected threshold value has been set.
- 6. Now switch the device off and back on to proceed with the changed settings.

Saving and calling up measuring results

The device memory permits you to save up to 99 measuring results. Please proceed as follows to save a measured value:

- 1. Briefly press the *SET* button (9).
 - ⇒ The *REC* indication (16) is briefly displayed.
 - ⇒ The memory space for the currently stored measured value is shown on the display for approx. 2 seconds in the *Air pressure* indication (22).

Please proceed as follows to call up a saved measuring result:

- 1. Press and hold the *MODE* button (10) for approx. 3 seconds.
 - ⇒ The measuring result most recently saved in slot "01" will be displayed.
- 2. You can use the *HOLD* button (2) and the *Lamp / pressure* unit button (7) to browse the list of saved measuring results.

Deleting saved measuring results

All saved measuring results can be deleted at any time. This means, however, that all saved measuring results will be deleted at once, not just individual ones.

Proceed as follows to delete the saved measuring results on the device:

- 1. Press and hold the *MODE* button (10) for approx. 3 seconds.
 - ⇒ The measuring result most recently saved in slot "01" will be displayed.
- 2. Press and hold the SET button (9) for approx. 2 seconds.
 - ⇒ All saved measuring results will be deleted.
 - ⇒ "---" will be indicated for the measuring results on the display and the value for the selected memory space is "00".
- 3. Press and hold the *MODE* button (10) twice for about 3 seconds to switch back into normal measuring operation.
 - ⇒ You can now resume the current measurement.



Configuring the alarm for the WBGT index

You can define values for the WBGT index upon the exceedance of which an acoustic alarm will be triggered. In default setting, the alarm function is deactivated. For indoor measurements the value can be set within a range of 15.0 °C to 59.0 °C, out of doors you should set it between 15.0 °C and 56.0 °C.

Please proceed as follows to configure the alarm function:

- 1. Press and hold the *MODE* button (10) for approx. 3 seconds.
 - ⇒ The measuring result most recently saved in slot "01" will be displayed.
- 2. Press and hold the *MODE* button (10) again for approx. 3 seconds.
 - ⇒ The currently set alarm threshold for the WBGT index (19) will be indicated on the display.
- 3. You can use the *HOLD* button (2) and the *Lamp / pressure* unit button (7) to adjust the set value.
- 4. You can switch between the individual positions of the segment display by briefly actuating the *UNIT* button (5).
- 5. Press and hold the *MODE* button (10) again for about 3 seconds to switch back into normal measuring operation.
 - ⇒ The set value will be saved and you can proceed with the current measurement.

De-/activating the alarm for the WBGT index

Once the alarm for the WBGT index has been configured, it needs to be activated at the device.

Please proceed as follows to configure the alarm function at the device:

- 1. Press the *Power* button (3) for approx. 1 second.
 - ⇒ The *Alarm* indication (24) will be displayed and the alarm function is activated.
- 2. Press the *Power* button (3) again for approx. 1 second to deactivate the alarm function.
 - ⇒ The *Alarm* indication (24) will no longer be displayed and the alarm function is deactivated.

Activating/deactivating the background illumination

The background illumination can be activated and deactivated as follows:

- 1. Press and hold the *Lamp / pressure unit* button (7) for approx. 3 seconds.
 - ⇒ The background illumination is activated.
- 2. Press the *Lamp / pressure unit* button (7) again for approx. 3 seconds to deactivate the background illumination.

Deactivating automatic switch-off

The device switches off automatically after 15 minutes of nonuse. Please proceed as follows if you want to disable this function.

- 1. Press the *HOLD* button (2) and the *Power* button (3).
 - ⇒ The indication "n" appears briefly on the display and the automatic switch-off is deactivated.
 - ⇒ The device switches back to measuring mode.

For switching the device off

Please proceed as follows for manual switch-off:

- 1. Press the *Power* button (3) for approx. 2 seconds.
 - ⇒ The device is switched off.

Maintenance and repair

Battery change

A battery change is required when the "bAt" indication lights up on the display (1) or the device can no longer be switched on (see chapter "Inserting the batteries").

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.

Errors and faults

The following error messages can be displayed in the *Humidity level* indication (15).

Error no.	Cause	Remedy
Er1	Defective sensor.	Please contact the
Er2	Measured values outside the measuring range.	customer service.



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, batteries and 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. You are legally obliged to dispose of old batteries and accumulators properly. 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.

In the European Union, batteries and accumulators must not be treated as domestic waste, but 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.

To prevent environmental pollution, do not carelessly leave batteries or electrical and electronic equipment containing batteries in public areas.

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.

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