

# GEIGER

PARTNER TO THE SUN

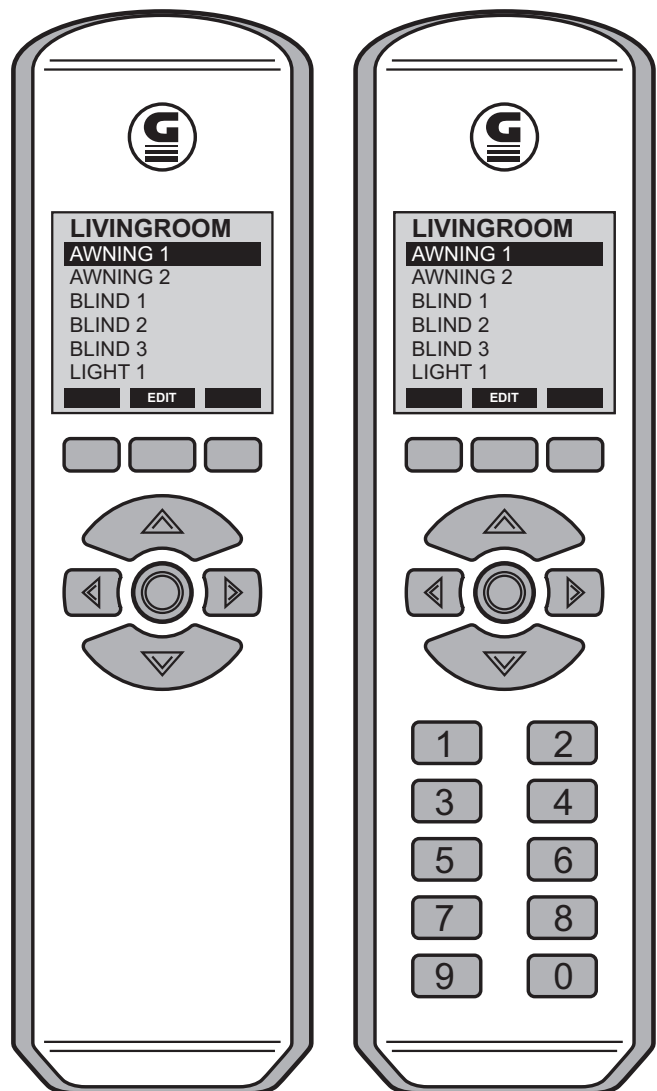
## GEIGER RADIO SYSTEMS

Sunshade controls

### Radio remote controls for rolling shutters and sunshade controls

GF0043 18-channel  
GF0050 50-channel

Display handheld transmitter  
with timer, astro function and  
USB interface



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# 1. Introduction

The purchase of the **handheld transmitter with graphic display GF0043/GF0050** was a good decision. You have acquired a high-quality product from the house of GEIGER.

The handheld transmitter enables to send either 8 or 50 different codings to control a range of different receivers:

- Individual
- Grouped or
- Centralized controls

No labour-intensive and time-consuming laying of control lines is needed as all switching signals are transmitted via radio.

An integrated timer with astro function enables the automatic sending of switching commands at pre-selected times. Following radio receivers with integrated control can be controlled with the GEIGER handheld transmitters GF0043/GF0050:

- all **GEIGER radio motors**
- all **external radio receivers**

# 2. Safety instructions

The operation of the actuators and the electrical products shall only take place when you are sure that there is no risk to people, animals or property.

**The radio remote control should be kept out of reach of children.**

If service work or adaptations are necessary, the device is to be immediately taken out of service and secured against inadvertent use.

# 3. Intended use

The comfort handheld transmitter is only to be used for its intended purpose as described under Section 1 of the operating instructions.

Changes or modifications to the transmitter void any rights to claims under the guarantee. After unpacking the device, check it right away for any damage. Transport damage is to be reported to the supplier immediately.

# 4. Transmitter description

## **Comfort-handheld transmitter with graphic display GF0043**

- 3 areas for the selection of 6 different codings each.
- With USB interface and software-CD for individual labelling of the receivers and timer programming via a MS-Windows PC.
- Alternative labelling of the receivers with terms of an internal library.

- Any number of receivers can be assigned to the 18 codings.
- Large navigation keys for an easy and intuitive operation and to send the radio commands to the receivers.
- Multifunction keys to perform the functions shown on the transmitter display, for example sun automatic on/off.
- Integrated clock with timer function and astro time shift.
- Automatic changeover of daylight savings time.

### **Comfort handheld transmitter with graphic display GF0050**

- 5 areas for the selection of 10 different codings each.
- With USB interface and software-CD for individual labelling of the receivers and timer programming via a MS-Windows PC.
- Alternative labelling of the receivers with terms of an internal library.
- Any number of receivers can be assigned to the 50 codings.
- Large navigation keys for an easy and intuitive operation and to send the radio commands to the receivers.
- Multifunction keys to perform the functions shown on the transmitter display, for example sun automatic on/off.
- Integrated clock with timer function and astro time shift.
- 10 shortcut keys for direct selection of frequently used functions.
- Automatic changeover of daylight savings time.

The packaging unit consists of:

- **Display handheld transmitter GF0043 or GF0050**
- **Software-CD**
- **USB interface connection cable**
- **Operating instructions**

## 5. Operating conditions

In order to maximize battery lifetime, three different energy modes are available.

The power-saving mode is also equipped with a key lock, for avoidance of unintentional switching, such as the closing of a shutter.

### 5.1 Operational mode

Press OK key to turn on the transmitter (wake up process from the power saving mode). The first location shows on the display. All keys are active and the display is illuminated.

### 5.2 Energy saving mode with snooze function

If no action takes place within 10 seconds, the snooze function is activated. The display light shuts off but all keys keep active. When actuating a key again the display light turns on.

### 5.3 Deep sleep mode


You get the transmitter to enter the deep sleep mode when all keys are not actuated for 1 minute. The display shuts down. Only the OK key keeps active. To wake the transmitter back up, simply press the OK key. The programmed switching times of the timer are running in the background.

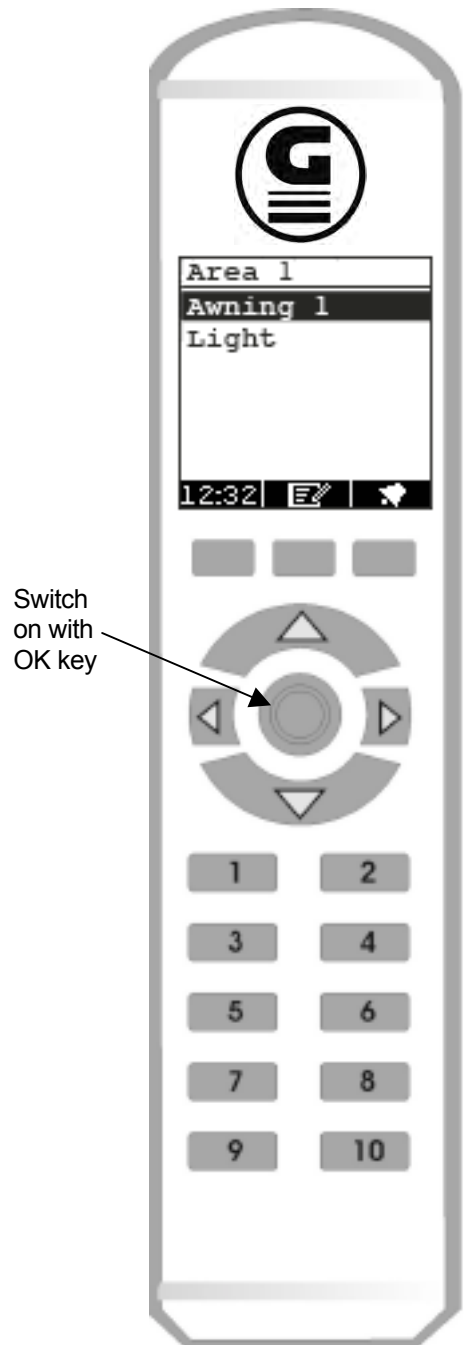


**Note:** the 10 shortcut keys are only available on the 50-channel handheld transmitter GF0050.



**Important:** the energy saving mode is off when the the USB-PC mode is activated (see page 17)








Exit USB-PC mode with key 

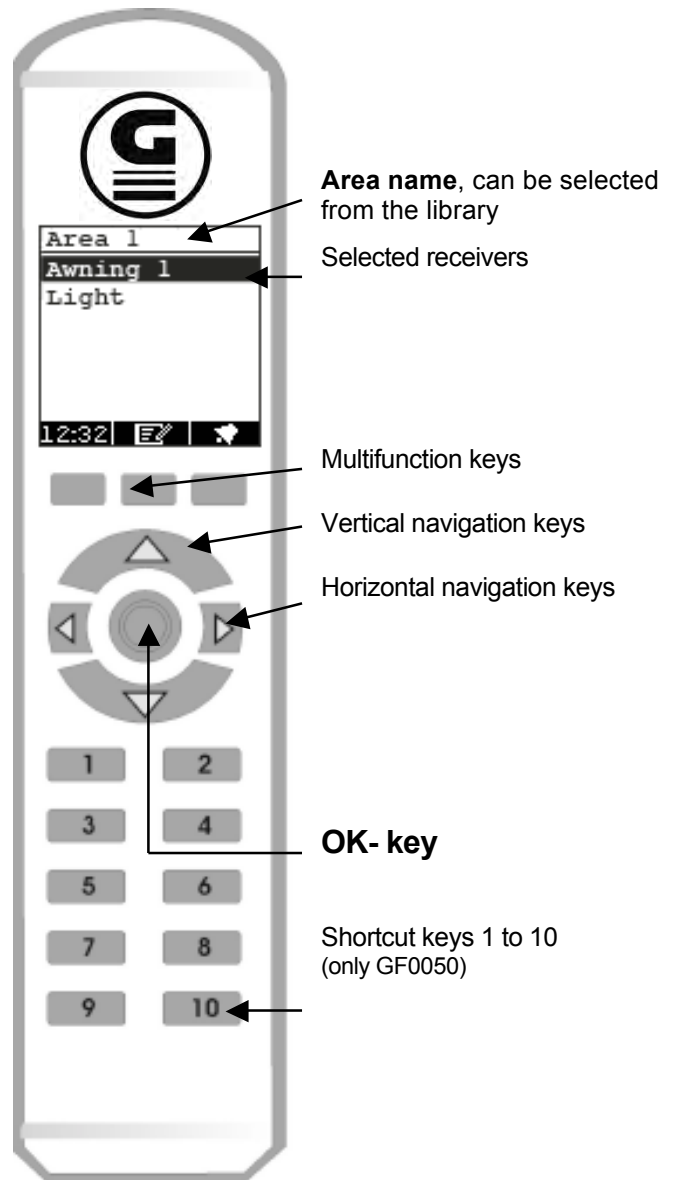


## 6. Operating instructions

### 6.1 Multifunction keys

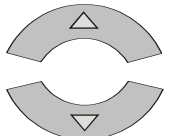
The functions of the keys appear on the display above each key:

-  **Editing mode:** enter setup menu
-  **Timer-display:** display switching times
-  **Device settings:** setup
-  Jump **back one menu level**
-  **Selection:** receiver / astro settings
-  **Timer settings:** timer menu
-  **Storing:** save settings
-  **Trash bin:** delete settings
-  **Sun automatic:** on
-  **Sun automatic:** off
-  **Timer function:** on/off
-  **Astro function:** on/off




### 6.2 Navigation keys

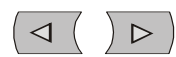
The navigation keys have several functions:



Select menu items UP and DOWN or SEND the selected radio command.



Navigation key OK to ACTIVATE the device, to SEND (1-channel) and to CONFIRM some functions.



SELECT menu items RIGHT or LEFT

### 6.3 Turning on the transmitter GF0043/GF0050

Press OK key:



The device switches off automatically when no keys are activated.

The display light turns off after 10 seconds.  
After another 60 seconds the device enters the deep sleep mode.

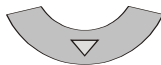


### 6.4 Selection of the receiver

After switching on you are first in the area 1. If an appropriate name from the library is assigned to area 1, this name will be displayed.

To select a receiver, use the vertical navigation keys (UP/DOWN) in order to move the black selection bar accordingly.

Downwards selection  
*Activate 1x*



Upwards selection  
*Activate 1x*

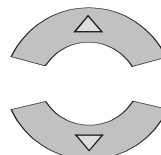




### 6.5 Send a radio command

Press OK key:

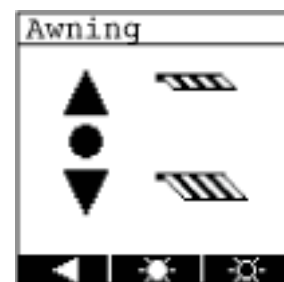


Select the required direction with the navigation keys and press key to send the radio command. The awning can be stopped with the opposite key.



When the sun automatic function is activated, you can switch it on  or off  with the multifunction keys.

Press left multifunction key  to return to receiver selection in area 1.



## 6.6 Switch between areas

The horizontal navigation key enables you to switch between the areas. Receivers can be assigned to each area. GF0050 has 5 areas and GF0043 has 3 areas.

Actuate key "RIGHT" to switch from area 1 to area 2 and then 3.

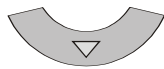


Actuate key "LEFT" to jump back one area.



Area 3: receiver "light" is on second position.

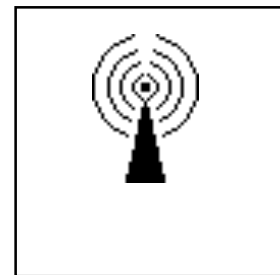
Actuate 1x the navigation key "DOWN".



Press key "OK" to send immediately the sending command (one channel actuator)

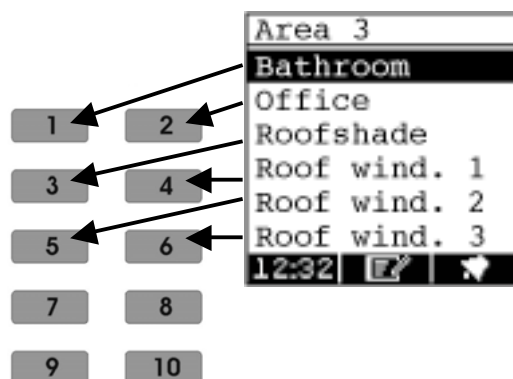


The light is switched on.



## 6.7 Shortcut keys (only GF0050)

Actuate the shortcut keys to select directly the receiver in each area 1-5. Please first select the desired area with the horizontal navigation keys. Up to 10 receivers can be created in each area. The order in the list corresponds to the keys 1-10.






## 7. Programming and coding instructions

The display transmitters can be freely coded. You can assign the corresponding receivers yourself (awnings, Venetian blinds, yard gates, garage doors etc.) as well as different codings.

### 7.1 Enter areas, receivers and codings

Actuate OK key  to switch on the transmitter

The display shows area 1.


You are in **area 1**


The 18-channel transmitter GF0043 has 3 areas.


The 50-channel transmitter GF0050 has 5 areas.



The horizontal navigation keys enable you to switch between the areas to the right or left.

Press the multifunction key  at least **4 seconds**. The GEIGER logo with a progress bar shows.

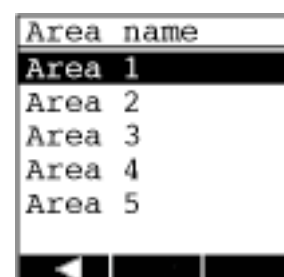
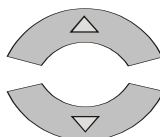
Keep the key  depressed until the progress bar is completed. The display then shows "area 1" and other multifunction keys.


Actuate 1 x the multifunction key  to access the menu "settings"

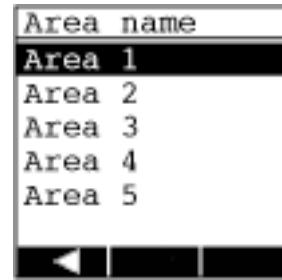
Press 5 x key  and 1 x key 

The display shows the menu "area names". Actuate the vertical navigation keys (UP/DOWN) to select the desired area.

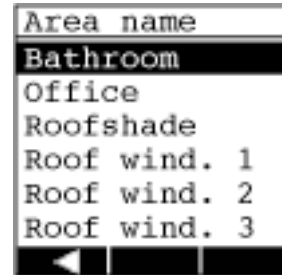
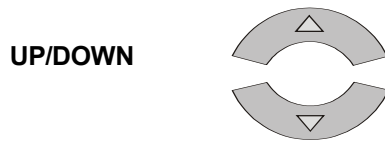
UP/DOWN



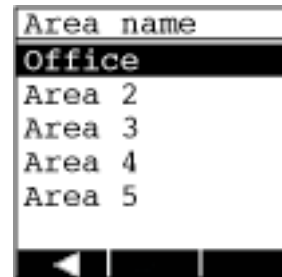
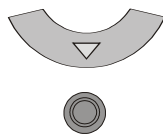
Then press OK key  to access the next display **area names**, the so-called library.



Actuate the vertical navigation keys (UP/DOWN) to select a name for your area.  
You can use the horizontal navigation keys to scroll page by page and select a name with UP/DOWN.




Example: in order to select the area name "office" please proceed as follows:



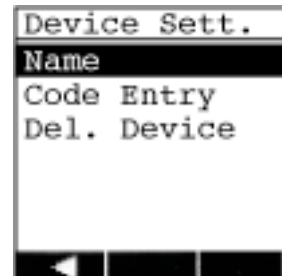
To take over the new area name "office", actuate 2x the multifunction key 




Area 1 is now called "office"

You can now create a receiver.  
Press key 

The display switches to **device setting**

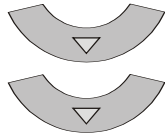


You can now create a device with the menu item **name**

Press OK key 

You can select an individual device name from the internal list of the display sender.

For example, you can begin with „roofshade“ in the „office“. Press twice the vertical navigation key downwards.

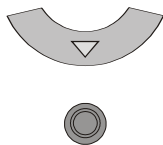


Press the OK key to save the name „roofshade“



You can now enter the coding and the receiver type.

Activate once the navigation key “DOWN” to open the menu **code entry** and press OK.



The display shows 3 code switches with 9 switches each. Depending on the receiver type, one, two or all three code switches will be needed. In case of 2-channel receivers the appropriate second code will be automatically generated.

Use the navigation keys to control the flashing cursor.

Check boxes on the left side show the status of each code switch:

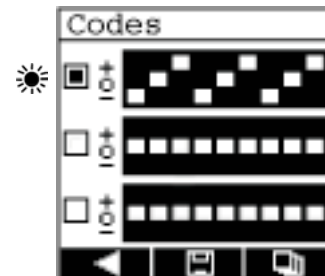
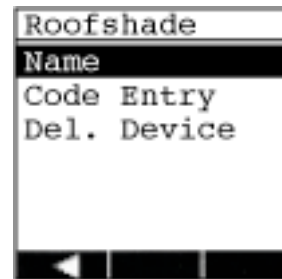
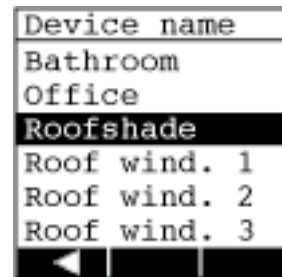
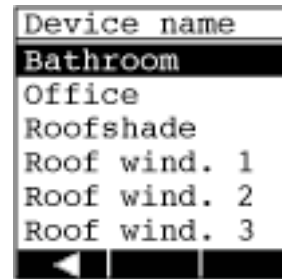
- **Black marking = active**
- **No marking = no function**
- **Flashing marking = code switch setting**

Activate the horizontal navigation key to the right to get to the top coding switch. With the vertical navigation key you can set the position for the 1st switch position (+ / 0 / -). Your current selected switch position is indicated by a blinking cursor. You can select all switches one by one with the horizontal navigation keys and set them with the vertical navigation keys.

The switch positions 8 and 9 are normally set to "0" and should only be changed in case of a specific channel application.

**If handheld transmitters GF0.01 – GF0.06 or GF0.10 are already programmed on receivers, the DIP switches 8 + 9 are to be set as follows:**

<b>Key pair 1</b>	<b>UP: 0 0</b>	<b>DOWN: 0 –</b>
<b>Key pair 2</b>	<b>UP: – 0</b>	<b>DOWN: – –</b>
<b>Key pair 3</b>	<b>UP: 0 +</b>	<b>DOWN: + 0</b>

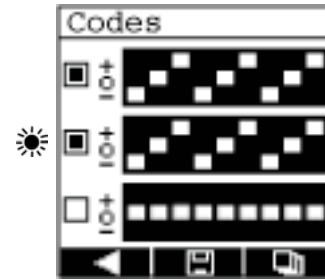
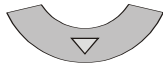


Quit the first coding switch in order to select the receiver type.  
Keep the vertical navigation key depressed.



... until the check box next to the coding switch flashes.

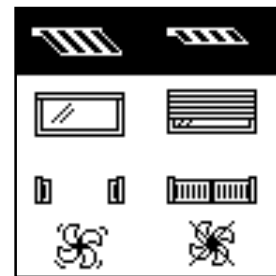
Activate navigation key "DOWN" to get to the box next to the second coding switch. (left box flashes!)



Press the OK key to access the display „receiver selection“.



Select the appropriate icon pair (see also point 7.3.)  
with the navigation keys (UP/DOWN). Press OK key  
to save your selection.

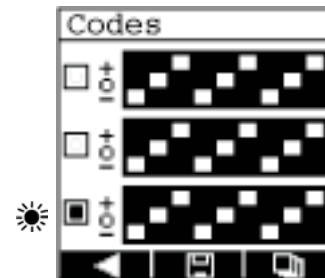


The display returns to **code entry**. The switch positions  
1 - 7 have been applied, the switch positions 8 + 9 are automatically set to the next following  
channel.


If the selected receiver is not controlled by a sensor, then go directly to  
point 7.4


To set a sensor coding you can use any of the switch positions  
1- 6. The coding of switches 7 - 9 is automatically generated  
by the sensor.


Press 3 times the navigation key "DOWN"



to get to the last coding switch. Activate the navigation keys in order to set the desired coding  
for the sensor.

All settings are saved with the multifunction key . You return to the receiver menu  
**name / code entry / delete.**

The receiver selection reopens with the multifunction key  and you can select another  
icon pair, if necessary.

You jump back one level with the multifunction key  and enter the receiver menu  
„name / code entry / delete“. **Important:** the settings are not accepted here!

























## 7.2 Transfer set codings on receivers

In order to transfer the set codings on the different receivers, please refer to the operating instructions of the respective devices.

As far as many receivers are concerned the coding is taught directly but some other receivers have a 9-pole coding switch in order to set the appropriate coding.

## 7.3 Selection of various receivers


Following icons pairs are available for various receivers:

	Extended awning		Retracted awning
	Venetian blind DOWN		Venetian blind UP
	Rolling shutter DOWN		Rolling shutter UP
	Light OFF		Light ON
	Dimmer -		Dimmer +
	Window closed		Window open
	Roof window closed		Roof window open
	Heating OFF		Heating ON
	Gate closed		Gate open
	Garage door closed		Garage door open
	Fan OFF		Fan ON
	Group OFF		Group ON

## 7.4 Delete or modify areas, receivers and codes


### 7.4.1 Edit different receivers

Press the multifunction key  and hold it down for at least **4 seconds**. The GEIGER logo appears with a progress bar.

Keep key  pressed down until the bar is completed. Then the display shows the areas along with the receivers which have been created there.


Select your area and the receivers with the navigation keys. Confirm your selection with the OK key. (e.g. „roofshade“)




Briefly press 1 x key  after the selection of the desired receiver.

The sub-menu in order to set up the receiver displays and the current name of the selected receiver is displayed in the header.

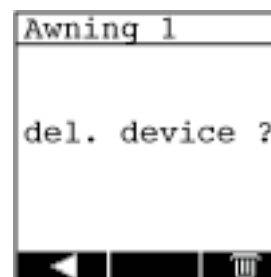
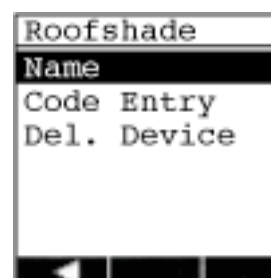
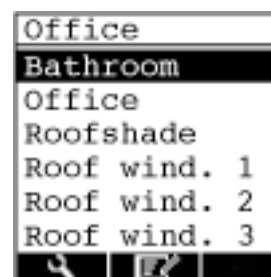
If the cursor is set on **name** and confirmed with the OK key, a new name from the library can be selected for the receiver. The selection is made using the “UP/DOWN” navigation keys and is confirmed and saved with the OK key.

The settings for the coding can be changed with the option **code entry**. If changes are made, they must be confirmed in the code entry menu with the multifunction key. 

The menu item **delete** removes the settings for the selected receiver in the area. If **delete** is selected with the OK key, you have to confirm the deletion procedure in a safety query.

The multifunction key  cancels the operation and you return to the settings menu for the selected receiver.


With the multifunction key  all settings for the selected receiver will be deleted irrevocably.




## 7.5 Settings menu


### 7.5.1 Access / exit menu

Press the multifunction key  and hold it down for at least **4 seconds**. The GEIGER logo appears with a progress bar.

Keep key  pressed down until the progress bar is completed. Then **area 1** is displayed with other multifunction keys.

**Note:** if an area name or receiver have already been created, these will be displayed.

**Note:** if the key  is pressed for 2 seconds, you quit the settings menu and the actual time displays at the bottom left.

Briefly press 1 x the multifunction key.  The display switches to the menu **settings**.





### 7.5.2 Set time and date

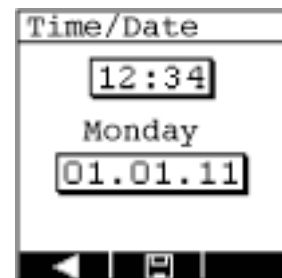
Select the first item **Time / Date** in the settings menu and confirm with OK key. 

The menu for entering time and date displays. Use the horizontal navigation keys to move the blinking cursor for input either to the left or to the right.


Cursor to the left  Cursor to the right 

The value can be set accordingly with the navigation keys (UP/DOWN) at the spot where the cursor is flashing.

Higher value   
Lower value 



All settings are saved with the multifunction key . You return to the settings menu.


You jump back one level with the multifunction key  and enter the settings menu.  
**Important:** the settings are not accepted here!





**Note:** If a nonsensical input is made, an exclamation mark appears in the display and the input must be repeated.



### 7.5.3 Set the timer


Activate key  to open the settings menu (see point 7.5.1)


The option for the timer is set to **ON** i.e. all created switching times will be executed. Select the second point **timer** with the navigation keys (UP/DOWN) and confirm with OK key .


Then the timer is set on **OFF** i.e. all created switching times will not be executed. You can switch between **ON** and **OFF** for the timer with the OK key . The creation of switching times for the timer is described on page 19.




### 7.5.4 Set astro functions

Activate key  to open the settings menu (see point 7.5.1)

The option for astro is set on **OFF** i.e. the astro function will not be executed. Select the third point **astro** with the navigation keys (UP/DOWN) and confirm with the OK key .

Then astro is set on **ON** i.e. the astro time shift function will be executed. Press the OK key  to switch between **ON** or **OFF** for the astro function.

Activate the multifunction key  to access the astro settings menu in which you can set the latitude and the offset times.



Following latitude values can be selected: **30°, 35°, 40°, 45°, 50°, 52°, 54°, 56°, 58°, 60°**.

*A list of cities on the specified latitudes can be found in the appendix on page 30.*


Use the horizontal navigation keys to move the blinking cursor for input either to the left or to the right.

Cursor to the left  Cursor to the right 

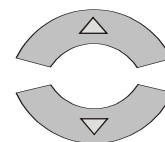
The value can be set accordingly with the navigation keys (UP/DOWN) at the spot where the cursor is flashing.

- **Sunrise**  Offset can be set up: max. +/- 120 minutes
- **Sunset**  Offset can be set up: max. +/- 120 minutes

The offset is an additional individual time shift in minutes (+/-) on the sunset/sunrise astro times. This time information allows you to customize the astro time shift on your local situation, if necessary.


All settings are saved with the multifunction key  and you return to the settings menu.


Activate the multifunction key  to move back to the settings menu without saving.






### 7.5.5 Language setting

Press key  to open the settings menu. (see point 7.5.1)

Activate the navigation keys (UP/DOWN) to select the fourth menu item **language** and confirm with the OK key .

A selection menu displays with five different languages. Select the desired language with the navigation keys (UP/DOWN) and confirm with the OK key .

The menu language will change accordingly.




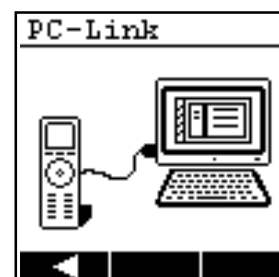
**Note:** if the menu language is changed, all individual area names are reset to factory defaults.


Press multifunction key  to move back to the settings menu.




### 7.5.6 USB connection to a PC


If the handheld transmitter is connected to a PC with a USB cable, the active PC connection is shown automatically on the display. The display transmitter can now be used with the programming software. Press the multifunction key  to disconnect the active USB connection. The display returns to the settings menu.



To manually restart the USB connection, press key  to open the settings menu (see point 7.5.1)


Select the fifth menu item **PC link** with the navigation keys (UP/DOWN) and confirm with the OK key .




**Note:** the power saver is not running as long as the USB connection is active. If the USB connection is no longer needed, disconnect the connection with the multifunction key .



## 7.5.7 Device information

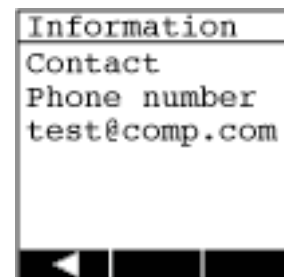
Press key  to open the settings menu (see point 7.5.1)

Select the seventh menu item **information** with the navigation keys (UP/DOWN) and confirm with the OK key .





A display window shows individual information such as contact, emergency phone number etc. This display can only be created with the programming software. Initially this display is empty.

Press the multifunction key  to return to the settings menu.




## 7.5.8 Reset to factory defaults

Press key  to open the settings menu (see point 7.5.1)

Select the eighth menu item **factory defaults** with the navigation keys (UP/DOWN) and confirm with the OK key .



A prompt displays to ask if the changed settings should be really deleted.

Press multifunction key  to reset the display handheld transmitter to factory defaults (note: date and time are not deleted). The display shows the settings menu again.




Press the multifunction key  to return directly to the settings menu without execution of the factory settings.


## 8. Timer menu

### 8.1 Access / delete menu

Press the multifunction key  and hold it down for at least **4 seconds**. The GEIGER logo appears with a progress bar.

Keep key  pressed down until the progress bar is completed. Then the display shows **area 1** with other multifunction keys.

**Note:** if an area name or receivers for area 1 have already been created, these will be displayed.


**Note:** if the key  is pressed for 2 seconds, you quit the settings menu and the actual time displays at the bottom left.


**Note:** the multi-function key  only shows if receivers have been created in a particular area.



### 8.2 Setting the timer

Timers can only be set when appropriate receivers have been previously created. Select one area using the horizontal navigation keys. Select one receiver in the chosen area using the navigation keys (UP/DOWN).

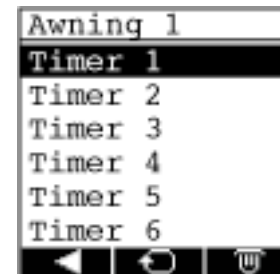
After you have set the cursor on the desired receiver, confirm the selection with key .

The display shows the selection and entry of timers for the selected receiver. A maximum of 6 timers are available for each receiver. Select one timer using the navigation keys (UP/DOWN) and confirm the selection with the OK key .

A total of 20 timers can be allocated to the areas and the receivers. If all timers are allocated, the selection menu shows no timer.

The characteristics of the timer are set in the next display. A display shows in order to enter time, days of the week and an action icon.

**If an intermediate position is programmed, a second time-delay timer must be set up in order to reach the end position.**



Time and date can be entered in the timer menu. Use the horizontal navigation keys to move the blinking cursor for input either to the left or to the right.

**Cursor to the left**  **Cursor to the right** 


If the cursor flashes by the 4 time digits, the values for the switching times can be set up using the navigation keys (UP/DOWN). The desired time – when the timer should control the receiver – is now set.


**Higher value**




**Lower value**



If, after the last time digit, you move the cursor further right, the receiver symbol flashes. By pressing the Ok key  you can set up in the next selection window, which coding should be sent by the timer. This selection appears only if a receiver has been created with 2 running directions.




The desired running direction is selected by using the navigation keys (UP/DOWN) and confirmed with the OK key .


This determines here e.g. if the timer extends or retracts the awning at the programmed time.

You access the timer menu by using the multifunction key  **Important:** the settings are not accepted.

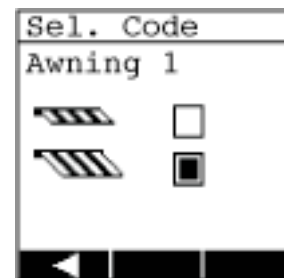
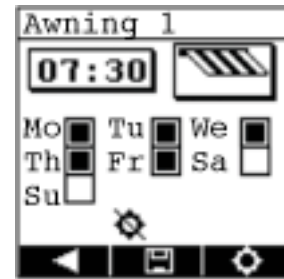
By using the navigation keys „UP/DOWN“ and „RIGHT/LEFT“ you access in the timer menu the selection of the days of the week. Place the blinking cursor on the desired day and select with the OK key. If a week day is marked, the corresponding check box turns black. A selection can be cancelled at any time by clicking the OK key again.

If the astro function has been activated previously in the settings menu, the multifunction key  appears in the timer menu.

The astro function for the timer entry can be enabled/disabled with the key . Icon  shows when the astro function is activated, icon  shows if the astro function is disabled.

All settings are saved by using the multifunction key  and you return to the timer menu.


Press multifunction key  to return to the timer menu. **Important:** the settings will not be accepted.





If a timer has been set, this entry appears in the timer menu with the corresponding switching time.


Specific timers can be selected using the navigation keys „UP/DOWN“.

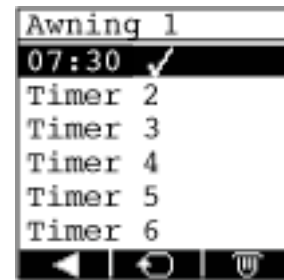
The icon ✓ indicates that the timer is active. If the astro function has also been activated, the icons ✓ ⚙ appear next to the programmed switching time.

A programmed timer can be disabled by using the multifunction key . The switching time still shows and the icons ✓ ⚙ are hidden.

Press key  to activate again the timer.

A selected timer entry is irrevocably deleted by using the multifunction key .

You return to the menu for selecting areas and receivers by using the multifunction key .



## NOTE!

Depending on the date and latitude the astro function provides the corresponding switching times for sunrise and sunset. If a timer entry with a fixed switching time is combined with the astro function, please note following:

### Sunrise





The „later“ time (timer or astro) is always used for the switching command.

### Sunset



The „earlier“ time (timer or astro) is always used for the switching command.

If timers have been created for a receiver, the starter screen shows an additional multifunction key .


The respective timer status of a specific receiver is displayed using the key . If the key is not visible, no timer has been programmed for this receiver.



### 8.3 Timer Status

Select an area and the desired receiver.  
If a timer has been created, the multifunction key appears by the corresponding receiver.




Press key  to display the timer status.

The timer status shows all important timer settings:

The time in the upper left window shows the actual switching time. (depending on what is running, either the programmed switching time or the astro time is displayed.). The time at the bottom right is the current astro time shift. This time only shows if the astro function for this timer has been previously activated.




A programmed timer can be disabled without going through the set up menu by using the multifunction key  .

The switching time is still displayed. Following icon appears: 

If a timer is disabled, the astro function for this timer is automatically disabled too.

Press key  to reactivate the timer. Icon  shows.

Press multifunction key  to return to the menu for selecting areas and receivers.

All other settings in the timer status display cannot be changed.

## 9. PC Management Software

With the PC management software, you can easily set up a large number of devices and receivers on your handheld transmitter with display. Below please find some tips on how to use the software.

### 9.1 Software installation

The software GF0043-50 is compatible with the operating systems Microsoft Windows 7, Windows Vista or Windows XP.

Please first install the **.Net-Framework 3.5** from the enclosed CD-ROM.

Then, install the GF0043-50 software by running the program called GF0043-50-Setup.exe.

When the installation is completed, you can connect your transmitter to your computer with the included USB cable. The first time, a short message indicates that a new hardware is found. Please make sure to first install the software and the driver and then connect the device.

You can now start the software for managing your handheld transmitter.

### 9.2 Overview GF0043-50 Management software

You can create customers and sites in the interface. Up to five areas with 10 devices each (GF0050) or up to 3 areas with 6 devices each (GF0043) can be assigned to each site.

### 9.3 Devices and areas

You can assign devices (receivers) to different areas such as „downstairs“, „first floor“ or „garden“. Select one area on your handheld transmitter. Only the devices are shown which are assigned to the area you are in.

## 9.4 Create new customers

To create a new customer, click on „new customer“. Then enter a name and an address for the new customer.

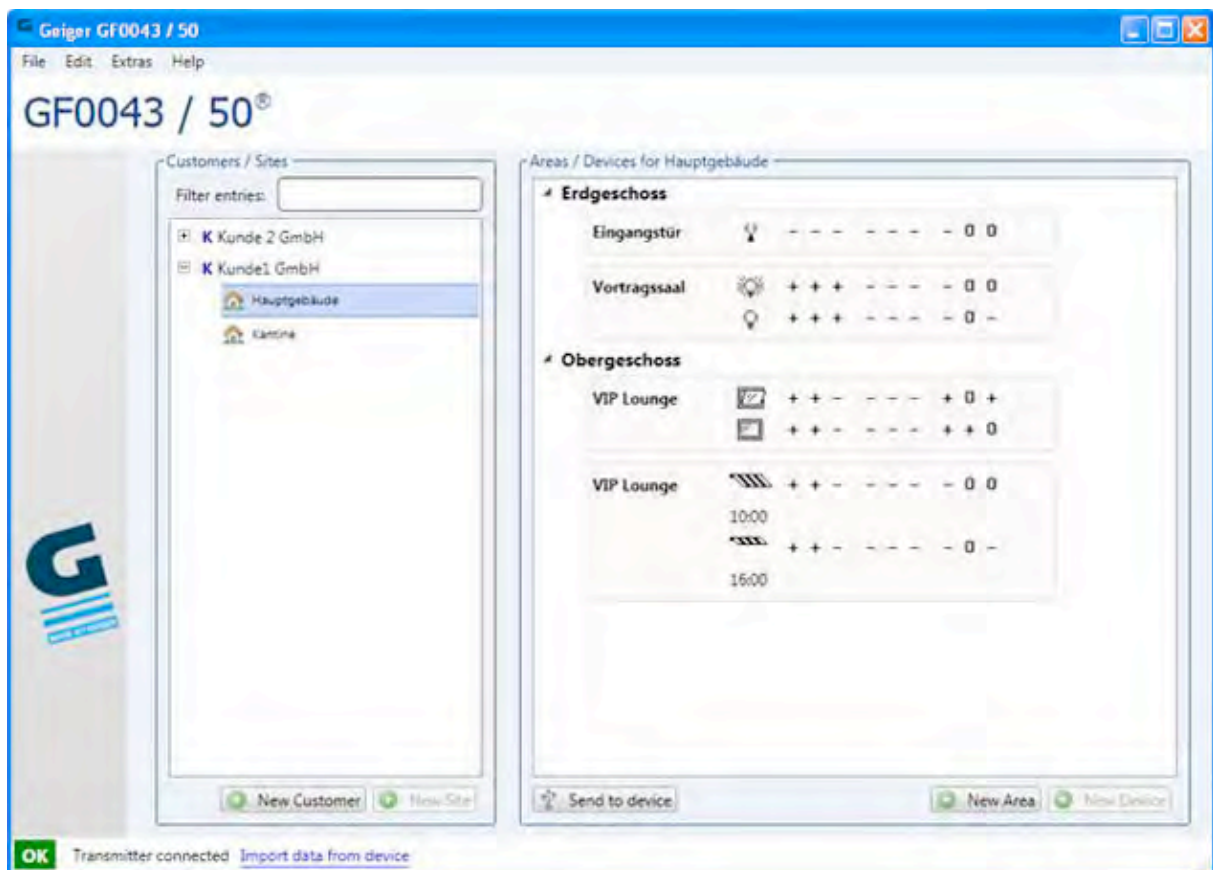
## 9.5 Create sites

To assign a site to a customer, click on a customer and then on „new site“. Enter a name and if needed an address for the site and press OK.

For each site, you can specify the latitude and offset times for sunrise and sunset. These values are under extras -> settings. These values are used by the astro function to adjust automatically switching times during the year, according to the changing times of the day and night (see also page 16).

Please note that you must specify an integer value for the sunrise and sunset offsets. If you enter "30", the switching time occurs 30 minutes later than defined. If you enter "-30", the switching time occurs 30 minutes earlier.

Following example shows 2 customers „customer 1 Ltd.“ und „customer 2“ with two sites each „main building“ and „cafeteria“:





## 9.6 How to assign areas to a site

Click on a site. The areas and devices that are assigned to the site are shown on the right side of the window.

Click on „new area“ or press Ctrl+B. Enter a name for this new area and press OK.

GF0043: you can create 3 areas with max. 6 receivers each

GF0050: you can create 5 areas with max. 10 receivers each

If you have created 5 areas and you write these areas on a GF0043 display transmitter, only the areas 1-3 will be overwritten. In this case the software displays an additional warning message.

## 9.7 Create devices

Select one area. Click on „new device“. Alternatively you can press Ctrl+G.

This opens a window to enter some information about the new device: enter a descriptive text in the field “designation”. This text appears on the transmitter.

Select one function. If you want to control functions such as „up“ and „down“ or „open“ and „closed“ with your handheld transmitter, select one entry from the list which describes your device. The assigned symbols will also show on your transmitter

Select the code for channel 1 / key 1 which usually has the function „open“ or „up“. This code must also be taught on the corresponding device.

Optionally, select a code for channel 2 / key 2 for the function „close“ or „down“

In general this code is identical to the code for channel 1 except for the last two digits. The last two digits stand for the key to be pressed on the transmitter in order to send the code.

If a sun/wind sensor is available, you can enter a sensor code. By using this code a sensor can temporarily be deactivated via transmitter, e.g. if you want to keep a blind open in spite of bright sunshine.

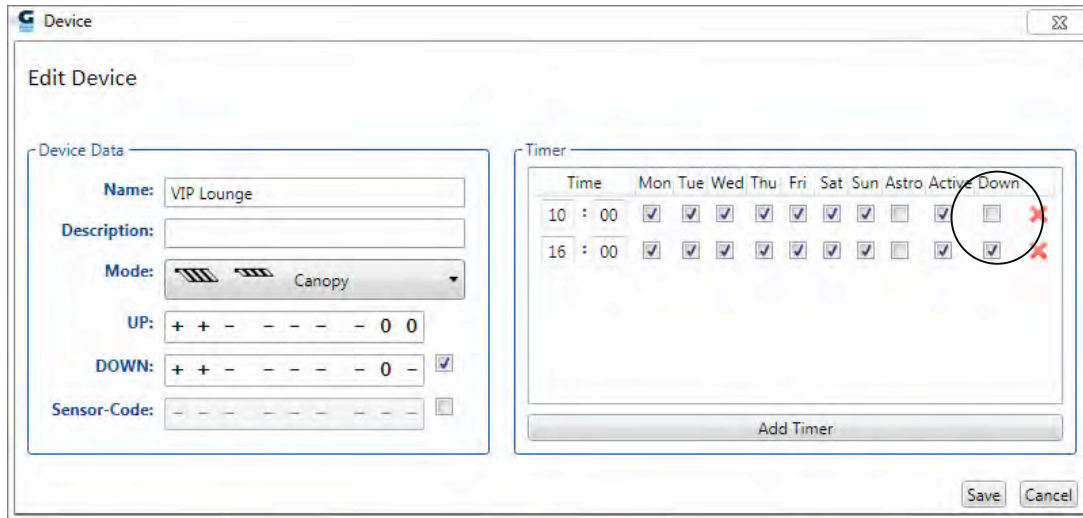
Six switching times can be assigned to each device. Maximum 20 switching times can be assigned to each site.

If switching times are available, the code for key 1 or key 2 is sent at the specified time. So you can open or close automatically something or switch on/off a light.

When entering a switching time, you can specify on which days of the week the switching time should be executed.

You can also specify whether an adaptation of the switching times should be made according to the changing day length during the year. In this case please activate the option "astro". The switching times can be characterized as "active" or "inactive". The transmitter performs only active switching times.

In some cases it may make sense to program the transmitter with the switching times and to activate these later on, e.g. in the case of a vacation.



*Channel 2 corresponds to the order "opposite direction"*

Click „add“ to configure the device.

GF0043: you can create 3 areas with max. 6 receivers each.

GF0050: you can create 5 areas with max. 10 receivers each.

If you have created 10 devices and you write these devices on a GF0043 display transmitter, only the devices 1-6 will be overwritten. In this case the software displays an additional warning message.

## 9.8 Enter info text on transmitter

The customer can access to an info text via transmitter. This text can mention the contact data of a technical contact person. (also see page 18)

This text can also be created via the software. It can be generally added in the "setting" dialog which is accessible via "extras" option. Then it can be individually adapted to each site. When processing the site data you can choose whether you want to use the global customer information or enter a specific customer information for the site.

## 9.9 Data communication transmitter - computer

After you have set areas and devices according to your needs, please connect a handheld transmitter via USB with the computer.

If the driver is installed correctly, the message „OK a transmitter is connected with the PC“ shows up in the progress bar at the bottom of the window. Now click on „send to transmitter“. A dialog box shows up, in which you can follow the data transmission.

You can also read previously programmed display transmitters and import all settings. To do so click on the link "import transmitter", right of the progress bar "OK a transmitter is connected with the PC."

## 9.10 Create radio coding plans

It is often helpful to print out the encoding plans for documentation purposes or in order to set the codings for the receivers.

Click on „file“ to select here „create radio coding plan (PDF)“ if you want to create a PDF coding plan and „create radio coding plan (Excel)“ if you prefer an Excel file.

Then select the data to be put in the plan. You can choose only the data of the selected site, or the data of the selected customer or the data of all customers.

The Excel plan requires the Microsoft Excel version up 2001. The data are in Excel XML format so that you can use other spread sheet programs.

## 10. Trouble shooting

### 10.1 The software will not start

Wait up to one minute after opening the software. The software usually starts within a few seconds. In individual cases, it may take up to one minute.

If an error message shows up, please check whether you have installed the .Net-Framework 3.5 from the CD-ROM. This is absolutely necessary for the implementation of the management software. It may be necessary to reboot your system.

### 10.2 The handheld transmitter is not recognized

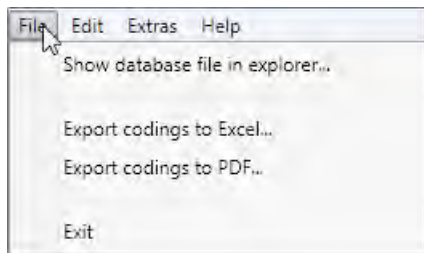
If the transmitter is not recognized, proceed as follows:

- Disconnect the transmitter from the computer and wait a few seconds.
- Reconnect the transmitter.
- If the transmitter is not recognized after a maximum of one minute, disconnect the transmitter from system.
- Uninstall and reinstall the software.
- Pay special attention when installing Windows Vista to allow the installation of the driver
- Start the software and connect the transmitter with your computer.

### 10.3 Database backups

The data are stored in a file named **GF0050.sdf**.

To prevent data loss, regularly store a copy of the file on a backup medium. Click on “file” and “show database file in the explorer“ to access this file.



You can easily install newer software versions and keep using the database file.

## 11. Care and maintenance

If operated normally, the life of the battery inserted in the device comes to approx. 2 years.

Do not expose to direct sunlight for extended periods.  
Clean the transmitter with a damp cloth or an anti-static cloth.  
If very dirty, clean the unit with diluted neutral detergent such a dishwashing detergent.  
Remove cleaner residue with a damp cloth.

Do not use alcohol-based or corrosive cleaners and no scouring powder!



**Note:** the date and time must be reset each time the battery is replaced.  
All other settings remain unchanged.

## 12. Waste Management



According to EU directives, electronic products and batteries should be disposed of separately from the household waste via designated collection facilities appointed by the government or the local authorities.

## 13. Technical Data

Transmission frequency	434 MHz
Batteries	3 x Micro 1,5 V, Type AAA or LR03A
Power saving mode	light switches off after 10 s. device powers off after 60 s.
GF0043	3 x 6 codings
GF0050	5 x 10 codings
Protection class	IP40
Housing dimensions	177 x 45 x 20 mm

## 14. Declaration of Conformity

This product complies with the essential requirements of the directive 1999/5/EC.  
It is authorised for use in all EU member states and in Switzerland without any need of prior registration.

The Declaration of Conformity concerning this product is available on our website:  
[www.geiger.de](http://www.geiger.de).

## 15. Appendix

Latitude positions that can be configured and city names

30°	Cairo
35°	Gibraltar
40°	Madrid
45°	Zagreb
50°	Cologne
52°	Hannover
54°	Kiel
56°	Copenhagen
58°	Oslo
60°	Helsinki



**For technical questions, please call our service team at: +49 (0) 7142 938 333.  
They will be happy to assist you.**

**GEIGER**  
PARTNER TO THE SUN

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