# CentralControl CC51



# **Commissioning instructions**

## **Central Controller**

Important information for:

• Fitters / • Electricians / • Users

Please forward accordingly!

These instructions must be kept safe for future reference.



4035 630 029 0a 21/07/2017



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## **General**

With the B-Tronic CentralControl you can operate the drives and control units with bidirectional KNX radio and the Centronic I and II range of controls.

This device uses free/open source software. The source code can be downloaded from http://www.b-tronic.net/source/. On request, Becker Antriebe will make the source code available on a CD-ROM at cost price. Please contact source@b-tronic.net if you are interested.

As a result of continuous further development of the software, there can be differences between the illustrations and your device.

This is not, however, important for any of the procedures described.

Please observe these Assembly and Operating Instructions when installing and setting up the equipment.

## **Explanation of pictograms**

<u>^</u>	CAUTION	CAUTION indicates a hazardous situation which, if not avoided, could result in injury.
	ATTENTION	ATTENTION indicates measures that must be taken to avoid damage to property.
i		Denotes user tips and other useful information.

## Warranty

Structural modifications and incorrect installation which are not in accordance with these and our other instructions can result in serious injuries, e.g., crushing of limbs. Therefore, structural modifications may only be carried out with our prior approval and strictly in accordance with our instructions, particularly the information contained in these Assembly and Operating Instructions.

Any further processing of the products which does not comply with their intended use is not permitted.

The end product manufacturer and fitter have to ensure that all the relevant current statutory, official and, in particular, EMC regulations are adhered to during utilisation of our products, especially with regard to end product manufacture, installation and customer advice.



## Items included

- B-Tronic CentralControl controller
- · USB WLAN stick
- USB Flash memory stick
- USB Centronic stick
- USB B-Tronic/KNX stick (optional)
- · Mains adapter
- Fastening material for wall mounting.
- · Documentation for commissioning

# Safety instructions

#### **General information**

- · Please keep the instructions safe!
- Only use in dry rooms.
- Keep people out of the system's range of travel.
- Keep children away from control units.
- Observe all pertinent country-specific regulations.
- · Do not place any objects on the control unit.
- Clean the control unit with a soft, dry, lint-free cloth, and do not use any chemical cleaning agents.



#### Caution

- If the system is controlled by one or more transmitters, the system's range of travel must always be visible during operation.
- Keep packaging materials such as film away from children. Misuse can create the risk of suffocation.
- Switch the control unit off immediately if the mains adapter and the plug to which it is connected is burnt or damaged. If a mains adapter is damaged, replace it with an original one. A faulty mains adapter must not under any circumstances be repaired.
- Switch the control unit off immediately if the housing of the control unit is damaged, or if liquids have penetrated.

#### Attention

- · Do not let any objects fall onto the control unit.
- If a display is present, protect it against being scratched by hard objects (e.g. rings, fingernails, wristwatches)
- Wait until the control unit has adjusted to ambient temperature before connecting the control unit to the mains adapter. Condensation that could lead to a short circuit can be caused inside the control unit by large differences in temperature and air humidity.

## Intended use

The B-Tronic CentralControl may only be used for the operation of suitable drives and control units with bidirectional KNX radio and with the Centronic I and II range of controls. You can operate a group, or multiple groups, of devices with this controller.

- Please note that radio-controlled systems may not be used in areas with a high risk of interference (e.g. hospitals, airports).
- The remote control is intended solely for use with equipment and systems in which
  malfunctions in the transmitter or receiver would not pose any risk to persons, animals or property, or which contain safety devices to eliminate such risks.
- The operator is not protected from interference from other telecommunications systems and terminal equipment (e.g. even from radio-controlled systems which are properly operated in the same frequency range).
- Only connect radio receivers to devices and systems approved by the manufacturer.

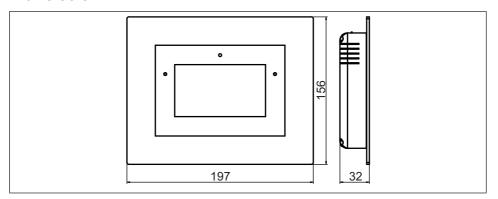


- Ensure that the control unit is not installed or operated close to metal surfaces or magnetic fields.
- Radio-controlled systems transmitting on the same frequency may cause reception interference.
- Note that the range of the radio signal is limited by legislation as well as by design.

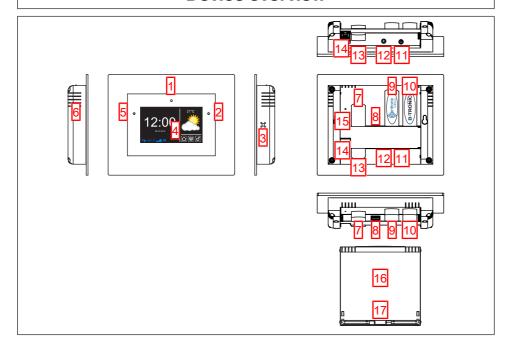


# **Dimensions**

## All dimensions in mm.



# **Device overview**



1. Integrated front camera	10. KNX stick
2. Light sensor	11. Connection for mains adapter
3. Loudspeaker	12. Headphone output (3.5 mm jack)
4. Touchscreen	13. WLAN stick
5. Operating status LED	14. Network connection (RJ45)
6. Microphone	15. Reset button
7. USB backup memory	16. Cover
8. Free USB connector	<b>17.</b> Feet
9. Centronic stick	

# **Online documentation**

In addition to the present commissioning instructions, we make comprehensive documentation available to you online.

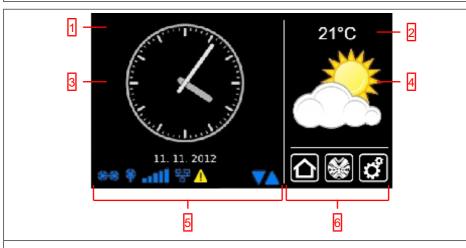
Please visit the following Internet site:

http://www.becker-antriebe.net/centralcontrol/.

## Mains connection

- 1. If necessary, pull the cover off the control unit.
- 2. First connect the mains adapter to the control unit, then plug it into the socket.
- 3. If you removed the cover, place it back onto the control unit now.

# Start / standard screen



#### 1 Main screen area

The time and date, and in some cases the weather forecast, are displayed on the main screen area.

#### 2 Navigation and status area

The current weather, status information, and the navigation elements for the programmed receivers are shown in the navigation and status area.

#### 3 Time / date

Display of date and time. The time can be displayed in digital or analogue format.

#### 4 Weather

Display of the current weather at the selected weather location. Displaying the weather data requires an Internet connection.

#### 5 Device status bar

The statuses of various device-specific functions are displayed on this status bar:

<del>*************************************</del>	B-Tronic KNX stick is available in the device.
<b>***</b>	B-Tronic KNX stick is not available in the device.
•	Centronic RF stick is available in the device.
\$	Centronic RF stick is not available in the device.
III	WLAN signal strength
III	No WLAN available

뭄	Network via cable
뭄	No network via cable
×	Access point available
1	Fault indication
0	An update is available
	The display of blue triangles indicates that more content is available in the main screen area by scrolling up or down.

#### 6 Main navigation

The main navigation is visible, with an identical format, on all the screens. It consists of the following three navigation panes:



Clicking this button will always take you back to the start screen.



Clicking this button takes you to the operating facilities for the receivers, rooms, groups and scenarios.

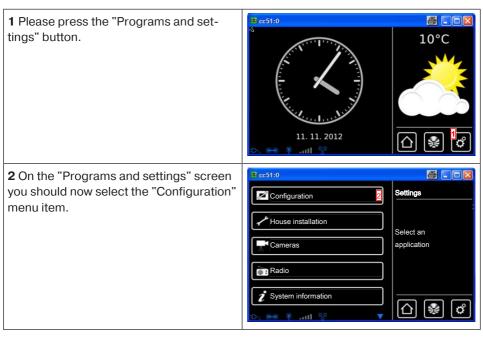


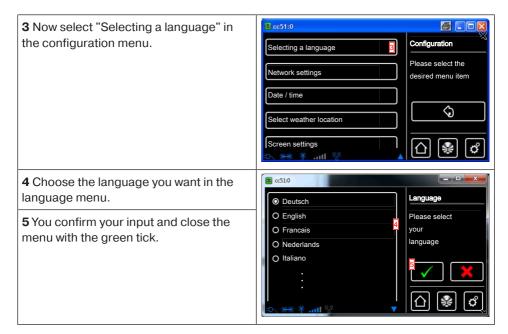
Clicking this button will take you to the settings.

# Commissioning, step-by-step

- Selecting a language [▶ 10]
- Network settings [▶ 11]
- Date / time [▶ 13]
- Select weather location [▶ 15]
- Programming receivers [▶ 17]
- · Creating rooms [▶ 20]
- Add receivers to rooms [▶ 22]
- Creating groups [▶ 24]
- Program receivers for groups [> 26]

## Selecting a language





#### **Network settings**

The full home automation functionality of the B-Tronic CentralControl is available even when it is not connected to a network. However, some additional functions and access options are only possible with network or Internet access.

In order to be able to use these functions, make sure that the B-Tronic CentralControl is connected to your network, that there is an Internet connection, and that the time is set correctly. Do remember that this may result in charges, depending on the contractual conditions of your Internet supplier.

**1** Please press the "Programs and settings" button.



**2** On the "Programs and settings" screen you should now select the "Configuration" menu item.

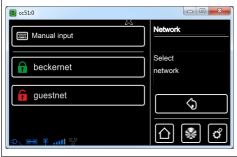


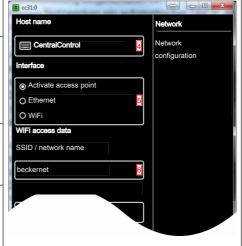
**3** Now select "Network settings" in the configuration menu.



- **4** You can change the name of the B-Tronic CentralControl here.
- **5** Selection for access point (configuration WLAN of the B-Tronic CentralControl. Only available on the CC31) Ethernet (wired network installation) or WiFi (WLAN / radio network installation).
- **6** SSID = network identifier (this is only needed for WiFi / WLAN connections)

You will only be able to select the networks flagged with a green symbol.





#### 7 Key = password

(this is only needed for WiFi / WLAN connections)

Please note that the central control can only be linked into a network by means of WiFi / WLAN if the WPA2 encryption is switched on at the router.

An automatic DHCP is usually activated in private networks. If this is not the case, please ask your network administrator for the entries required for the fields **9**, **10**, **11** and **12**.

i To ensure that a different IP address is not used every time the CentralControl reboots, a fixed IP address should be assigned to the CentralControl. (Select 8 = Manual, and input the information needed for the fields 9, 10, 11 and 12).

After configuration has been finished, some of the data can also be seen under "System information".

**13** If you are unable to establish a connection to your WLAN network using the standard WLAN driver you should test the alternative WLAN driver. Only available on the CC51.

**14** You confirm your input and close the menu with the green tick.

# peckernet Key / password (PSK) \*\*\*\*\*\* 7 Network configuration Automatic (DHCP) O Manual IP address 0.0.0.0 Net mask 255.255.255.0 Gateway 0.0.0.0 Name server 0.0.0.0 WLAN driver version Modification requires restart Standard Alternative

## Date / time

**1** Please press the "Programs and settings" button.



On the "Programs and settings" screen you should now select the "Configuration" menu item.



Now select "Date / time" in the configuration menu.



**4** Now please choose whether you want the time to be obtained automatically from the Internet, or whether you want to set it manually.

The central controller needs an Internet connection if it is to obtain the time and date information automatically.

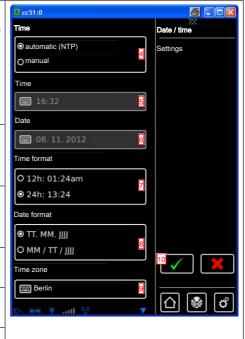
Setting the time manually.

This menu item is omitted if "Automatic" is selected under Point 4.

6 Setting the date manually.

This menu item is omitted if "Automatic" is selected under Point 4.

- Setting the format in which the time will be displayed.
- Setting the format in which the date will be displayed.
- Setting the time zone.
- You confirm your input and close the menu with the green tick.



#### **Select weather location**

Displaying the weather data requires an Internet connection.

In order to be able to display the correct weather data on your B-Tronic CentralControl it is necessary to provide the location for which the weather data is to be displayed. If the place you want is not available in the selection list, choose the nearest larger city.

1 Please press the "Programs and set-tings" button. 10°C 11. 11. 2012 2 On the "Programs and settings" screen you should now select the "Configuration" Settings Configuration menu item. House installation Select an Cameras application Radio System information **■** cc51:0 3 Now select "Select weather location" in the configuration menu. Configuration Selecting a language Please select the Network settings desired menu item Date / time  $\Diamond$ Select weather location Screen settings

- **4** The location that is currently set for the weather data is shown on the display.
- **5** To change the location, click the field where the name is displayed.



6 Now enter the location that you want.

Please make sure that you don't use any special national characters.

#### For example:

- München should be written Muenchen
- Orléans should be written Orleans
- **7** Confirm your input by clicking the green tick.
- **8** If your entry results in more than one hit, a selection list of possible locations will be displayed.

Select the location you want.

- i To execute Astro functions the location of the CentralControl must be entered correctly. This can be specified in the Select location menu.
- **9** You confirm your input and close the menu with the green tick.
- **10** Alternatively, you can also choose your current location as the weather location. To do this, simply click the "Set using location data" button.
- **11** Confirm your input by clicking the green tick.



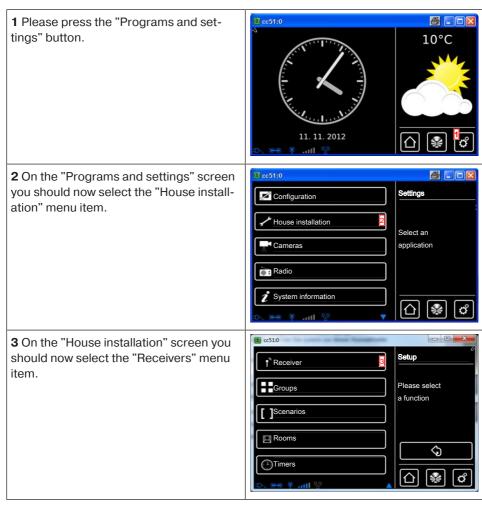




**12** After the central controller has entered the weather location according to your specifications, the screen returns automatically to the previous menu.



## **Programming receivers**



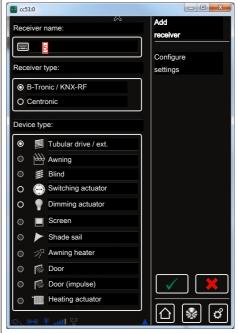
**4** Select the [+] button in order to add a receiver.



A name is first assigned to a new receiver.

Do please make sure that you name the receivers in a meaningful way, so that when they have all been added they can be distributed around the rooms according to their names.

5 Tap the name field.



**6** The keyboard opens. Enter the name of the new receiver here.

The name "Receiver" has been used in the example.

**7** You confirm your input and close the keyboard with the green tick.



8 Selecting the receiver type.

Two options are available:

- B-Tronic / KNX (bidirectional with confirmation function)
- Centronic (unidirectional without confirmation function)

Only certain device types are available for selection, depending on the selected receiver type.

9 Selecting the device type.

Several options are available:

For device types "Door" and "Door (impulse)", please note the following:

Depending on the functions available on the door drive being programmed, "Door" must be selected for door control units with defined UP/STOP/DOWN commands and Door (impulse) for door control units with impulse sequences (UP/STOP/DOWN/STOP etc.).

- **10** You confirm your input and move on to the next screen with the green tick.
- **11** The receiver must now be made ready for programming.

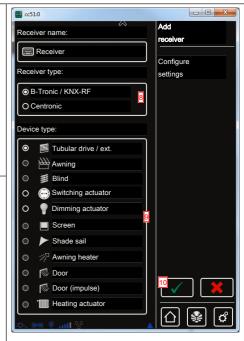
### **B-Tronic / KNX devices:**

Please find the procedure for the receiver in the operating instructions for the device that is to be programmed.

#### Centronic devices:

A Centronic receiver can only be programmed when it is put into programming mode by its master transmitter. Here again you can find the exact procedure in the operating instructions for the particular receiver.

**12** You confirm your input and move on to the next screen with the green tick.





13 In addition to the information on the screen saying that the programming has been completed successfully, many receivers also confirm correct programming. This is often done by "clicking" at motors, or by flashing the status LED at the receiver. The manual for the receiver concerned will tell you whether the receiver you are programming provides confirmation, and if so, how.



**14** You confirm your input and close the menu with the green tick.

You can now test the drive by operating it with the following buttons.

- A UP button
- **B** STOP button
- C DOWN button
- **15** You close the test menu with the green tick.
- **16** The new receiver can now be seen in the receiver selection menu.

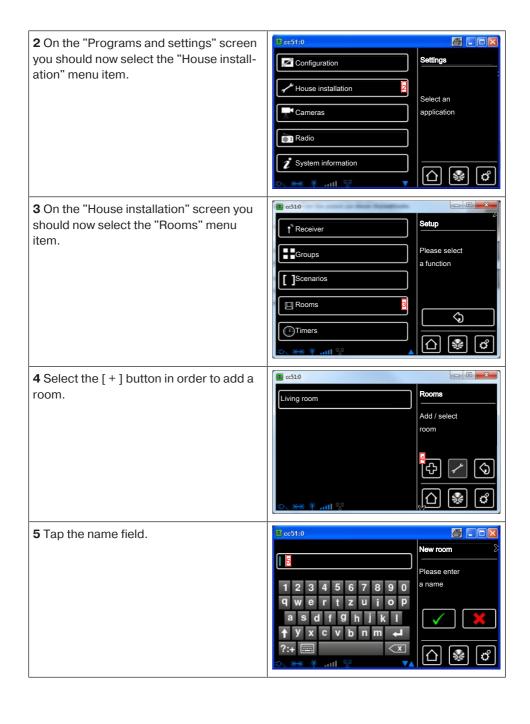


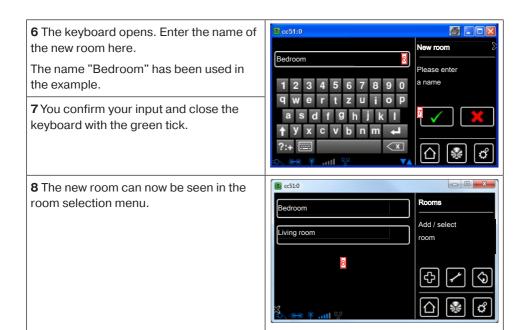


## **Creating rooms**

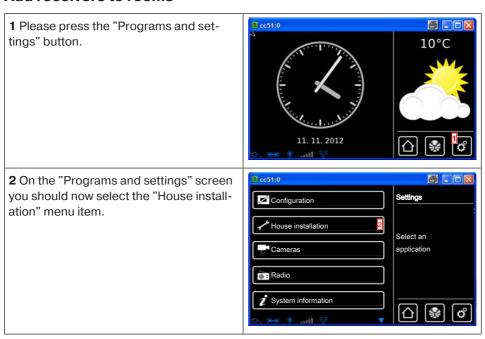
**1** Please press the "Programs and settings" button.







#### Add receivers to rooms

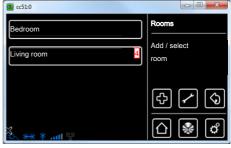


**3** On the "House installation" screen you should now select the "Rooms" menu item.



**4** Choose the room in which you want to add receivers.

For example: Bedroom



- **5** No receiver has yet been assigned to the chosen room (Bedroom) in the example. For this reason, the list of receivers contained in the room is still empty.
- **6** Select the [+] button in order to add a receiver to the chosen room.



**7** The list that is now shown displays all the available receivers, i.e. those that have not yet been assigned to a room.

You add this receiver to the room by tapping it.

i The list of receivers also contains groups and scenarios, and these can also be assigned to rooms in just the same way as individual receivers.



**8** The chosen receiver (switch) has now been assigned to the room (Bedroom), and appears in the list of receivers contained in the room.



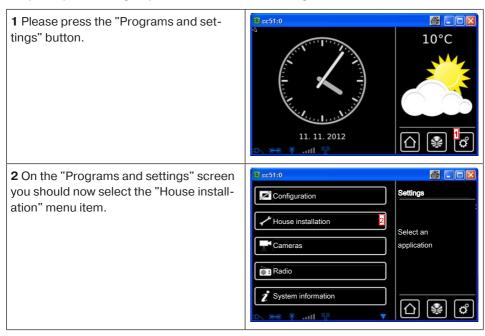
## **Creating groups**

A "group" is a number of receivers combined on one channel of the transmitter. All receivers in a group respond jointly to signals from the transmitter.

It is important to bear in mind that only receivers of the same type – e.g. roller shutter drives or switching receivers for example – can be combined in one group.

A 1-channel hand-held transmitter can also control groups, although only one group per hand-held transmitter.

With bidirectional devices, confirmation (positive/negative) is only provided once the last participant in the group has issued a status message.



3 On the "House installation" screen you @ cc51:0 Setup should now select the "Groups" menu Receiver item. Please select Groups a function Scenarios Rooms (1) Timers 4 Select the [+] button in order to add a cc51:0 Group group. Switch setup Add / select Drives group - - X **□** cc51:0 **5** Groups can only consist of receivers of Add Name the same type. group Please choose the desired receiver type ::::: Adjust for the group that is to be created. settings Tubular drive / ext. 6 Tap the name field. Switching actuator Dimming actuator **7** The keyboard opens. Enter the name of © cc51:0 the new group here. New group new group The name "New group" has been used in Please enter a name the example. 8 You confirm the name you have entered and close the keyboard with the green tick.

**9** You confirm your entries about the new group and close the menu with the green tick.

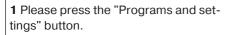


**10** The new group is now visible in the list of all groups.

i The list of receivers also contains groups and scenarios, and these can also be assigned to rooms in just the same way as individual receivers.

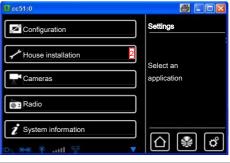


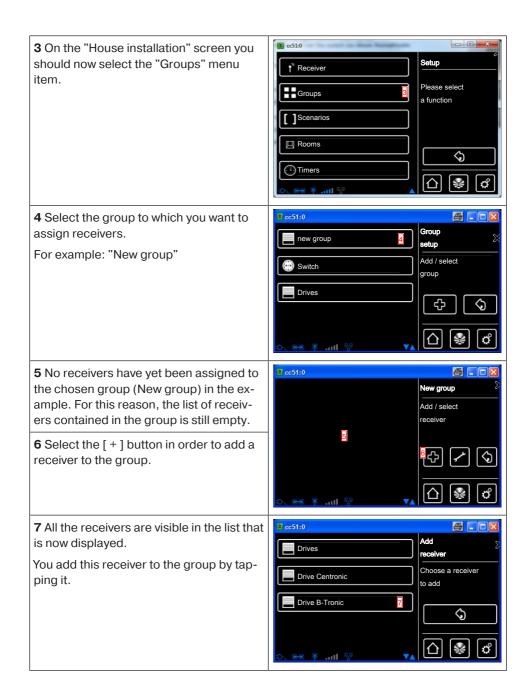
## **Program receivers for groups**





**2** On the "Programs and settings" screen you should now select the "House installation" menu item.





The chosen receiver (B-Tronic drive) has now been assigned to the group (New group), and appears in the list of receivers contained in the group.



# **Operation**

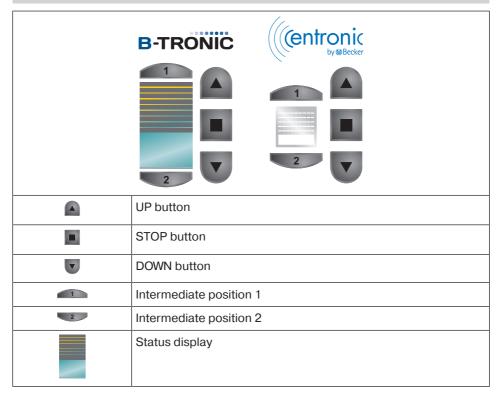
## **Operating receivers**

- 1. Press the 🗟 button in order to open the "My house" menu.
- 2. Now select the room you want.
- 3. Then choose the receiver that is to be operated.
- 4. You can now operate the receiver.
- 5. Press the "\overline{\Omega}" button when you want to close the menu.

#### **Tubular drive receivers**



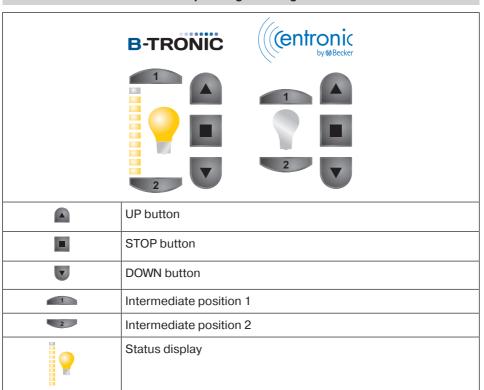
With B-Tronic receivers you get feedback on the current status and have the option of tapping the desired position on the status display in order to initiate a corresponding drive command.



#### **Dimmer receiver**



With B-Tronic receivers you get feedback on the current status and have the option of tapping the desired position on the status display in order to initiate a corresponding dimming command.



#### Switch receivers



With B-Tronic receivers you get feedback on the current status.

	B-TRONIC	(Centronic by &Becker)  (1)  (1)
0/0	ON button	
9	OFF button	
	Status display	

## **Operating groups**



Groups can only consist of receivers of the same type.

Just like receivers, groups can be assigned to rooms.

- 1. Press the 🗟 button in order to open the "My house" menu.
- 2. Then press the "Groups" button.
- 3. Then select the group that you want.
- 4. You can now operate the group. Operation is performed as described for each receiver type.
- 5. Press the "\overline{\Omega}" button when you want to close the menu.

# Additional configuration and operation options

The B-Tronic CentralControl offers many further options for the individual and user-friendly operation of your house automation:

- Creating and controlling scenarios
- · Time control functions
- Holiday function
- Internet radio
- Update service
- · Linking webcams
- · Weather and the forecast
- Operation via other devices in the home network or via mobile devices away from home

Our richly illustrated Assembly and Operating Instructions offer detailed information on the full range of available functions, their settings and operator controls and show you how to optimise the configuration of your CentralControl. To download these instructions, please go to our homepage:

http://www.becker-antriebe.net/centralcontrol/.

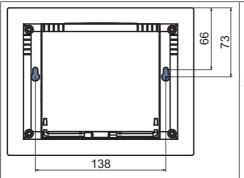
## Installation



#### Caution

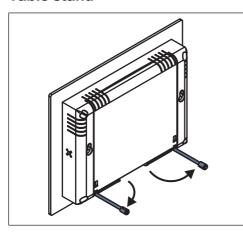
Lay the mains connecting cable in such a way that nobody can tread on it or trip over it.

## **Wall mounting**



- Check that the transmitter and receiver, and the WLAN if present, are working properly before mounting in the desired position.
- 2. Fasten the bracket to the wall using the two enclosed screws.

#### **Table stand**



- Check that the transmitter, receiver and, if present, WLAN function probably at the mounting position.
- 2. Open the feet of the stand to 90°.

# **Cleaning**

Only clean the device with a suitable cloth. Do not use aggressive cleaning agents that may damage the surface.

# **Technical data**

Supply voltage	230 V/50 Hz
Degree of protection	IP 20
Permissible ambient temperature and air humidity	0 °C to +55 °C at a relative humidity of between 20 % and 80 % (noncondensing)
Maximum emitted transmission output	≤ 25 mW
Radio frequency	868.3 MHz
CPU	ARM9 454 MHz
Memory	128 MB
Display	10.9 cm / 4.3 inch touchscreen
	Resolution: 480 x 272 pixels
Camera	640 x 480 pixels, VGA RGB
Operating system	Linux
Dimensions (W x H x D)	197 x 156 x 34 mm

## **Connections**

USB WLAN stick	IEEE802.11n
	WPA / WPA2
USB Flash stick	1 GB
USB Centronic RF stick	868.3 MHz
USB KNX stick	868.3 MHz
Ethernet	10 / 100 TBase
Headset	3.5 mm jack

The maximum radio range on and in the building is  $25\,\mathrm{m}$  and in the open  $350\,\mathrm{m}$ .

# Simplified EU declaration of conformity

Becker-Antriebe GmbH hereby declares that this radio control system complies with Directive 2014/53/EU.

The full text of the EU declaration of conformity is available at the following web address:

www.becker-antriebe.com/ce



Subject to technical changes without notice.



