CentronicPLUS
SWC541A PLUS

en **Assembly and Operating Instructions**

1-channel hand-held transmitter for sun/wind control, bidirectional

Important information for:

・Fitters /・Electricians /・Users

Please forward accordingly!

These instructions must be kept safe for future reference.

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General

You can control one or more receivers with this transmitter.
This device is exceptionally easy to use.
Please observe these Assembly and Operating Instructions when installing and setting up the equipment.

Explanation of pictograms

	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.
		Denotes user tips and other useful information.

Licensing information for open source software

This device uses free/open source software.
The licence texts are enclosed with the product in the licence documentation, which can be identified by the following symbol:

The licence texts for the licensed software being used can be downloaded from www.becker-antriebe.com/licenses.
Written request for the licence texts:
Becker-Antriebe will, on request, provide the licence texts for the licensed software being used at cost price, either on a USB stick or a similar data carrier. Please send an email to the following email address for more information: licenses@becker-antriebe.com

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.

Safety instructions

General information

- Please keep the instruction manual safe!
- Only use in dry rooms.
- Only use unmodified original parts from the control unit manufacturer.
- Keep children away from control units.
- Observe all pertinent country-specific regulations.
- Dispose of used batteries properly. Only replace the battery with one of the same type (see Technical Data).

Caution

- **Keep people out of the system's range of travel.**
- **If the system is controlled by one or more transmitters, the system's range of travel must always be visible during operation.**
- **Device contains small parts that can be swallowed.**

Intended use

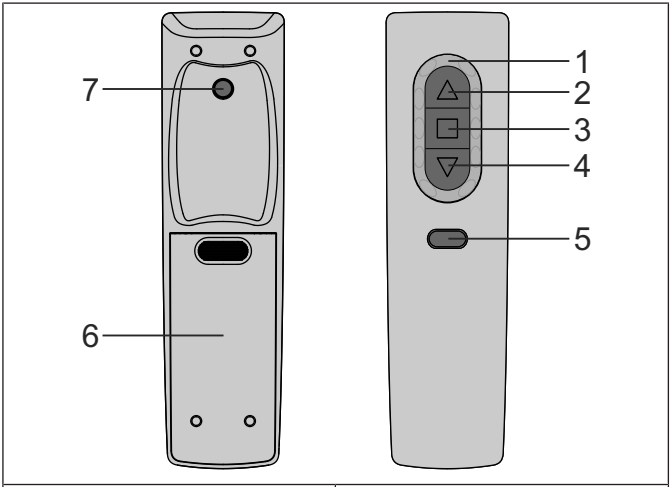
The transmitter described in these instructions must only be used indoors for the operation of radio drives and radio control units that are compatible with the CentronicPlus.

Attention
A safety-relevant function has been provided for the thresholds. Setting the threshold values wrongly can cause damage to the sun protection system. For that reason, setting the threshold values for the safety of your sun protection system should only be done by – or under the instruction of – a specialist retailer.

- 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.**

Explanation of displays and buttons



1. 0 LED ring	5. ⬬ function button
2. ▲ button	6. Battery compartment
3. ■ button (STOP)	7. ● programming button
4. ▼ button	

Explanation of functions

LED ring

Display of:

- Confirmations from receiver
- Manual / automatic
- Threshold / dimming values
- Battery status
- Visual support during commissioning

Keypad ▲, ■, ▼

- Drive commands
- Manual/automatic mode switching
- Intermediate position I + II

Function button

- Identification of the transmitter
- Retrieval/setting of thresholds
- Retrieval/setting of rain reaction

Programming button

- Environment scan, as well as selection and programming of receivers
- Add and remove receivers to/from the installation
- Restore factory settings
- Add additional transmitters to the installation

manual / automatic

You can display and select the "Manual" or "Automatic" setting by pressing the STOP button. Only manual drive commands and emergency signals can be performed with the "Manual" setting. In addition, automatic drive commands are also performed in the "Automatic" setting. The automatic functions are not interrupted if a manual drive command is carried out when in automatic mode.

<table>
<tr><td rowspan="4">■ 3s</td><td colspan="2">Press the STOP button for 3 seconds to display the current status.</td></tr>
<tr><td>Automatic mode:</td><td>The LED ring lights up green.</td></tr>
<tr><td>Manual mode:</td><td>The LED ring lights up red.</td></tr>
<tr><td>Different modes:</td><td>The LED ring lights up yellow.</td></tr>
<tr><td>■ 5s</td><td colspan="2">You can toggle between manual and automatic mode by pressing the STOP button for 5 seconds.</td></tr>
</table>

Identification of the hand-held transmitter

A colour can be assigned to the LED ring of the hand-held transmitter by pressing the function button to make the device easier to identify. The stored colour can be displayed by briefly pressing the function button. If the function button is pressed for longer than 3 seconds, the LED ring flashes briefly. The required colour can now be set by pressing the ▲ or ▼ button. 9 colours are available: press the function button again for longer than 3 seconds to store the colour currently selected.

Battery status

	Battery status low LED ring flashes yellow 4 times following normal feedback.
	Battery status empty LED ring flashes red 4 times following normal feedback.

Intermediate position I + II

The intermediate positions I + II are freely selectable positions for the shading solution between the two limit positions. Each travel button can be assigned one intermediate position. Both limit positions must be set before an intermediate position is set.
Whether or not this function is available depends on the devices used and is described in the relevant instructions for the receiver.

Thresholds

The function button can be used to retrieve and set thresholds for sensors. Whether or not this option for setting values is available depends on the devices used and is described in the relevant instructions for the sensor.

Installation key

All of the devices operating within an installation must have the same installation key in order to communicate with one another. This key is created on initial commissioning, and is then transmitted to the additional added devices. The installation key is only known to the programmed devices, and cannot be read off. The commissioning procedure is described in the relevant instructions for the receiver.

Programming transmitter

Please find the appropriate description in the instructions for the receiver.

Setting the thresholds

Setting the thresholds

<table>
<tr><td colspan="2"> </td><td colspan="2">Bring the transmitter as close as possible to the required receiver.</td></tr>
<tr><td rowspan="5">3s</td><td rowspan="5">M 1x
 </td><td colspan="2">Press the programming button for 3 seconds. The transmitter performs a search and the LED ring continuously changes colour. The transmitter then switches to receiver selection and selects the receiver with the best connection quality.
▻ The receiver confirms.
If you do not receive confirmation from the required receiver, you can press the ▲/▼ button to toggle between the available receivers until the required receiver confirms.
▻ The transmitter displays the current assignment status of the receiver via the LED ring.</td></tr>
<tr><td colspan="2">Assignment status</td></tr>
<tr><td>Lights up yellow:</td><td>The receiver is not yet part of the installation or is in the as-delivered condition.</td></tr>
<tr><td>Lights up blue:</td><td>The receiver is not assigned to the selected channel.</td></tr>
<tr><td>Lights up green:</td><td>The receiver is assigned to the selected channel.</td></tr>
</table>

●	Ⓜ 1x 	Briefly press the programming button to change to the setting mode. ▻ The receiver confirms. ▻ The LED ring of the transmitter slowly pulses light blue. ▻ The receiver now enters dead-man mode. ► The setting mode is now active. **i If a receiver has not yet been added to the installation (LED ring lights up yellow), it will not be possible to select it in this way. The receiver must be added to the installation beforehand.**
● **3s**		Press and hold the function button for at least 3 seconds. ▻ The hand-held transmitter switches to threshold mode. ▻ The LED ring of the transmitter shows the currently set sun threshold by lighting up yellow and orange. Press the ▲ / ▼ button to adjust the threshold to one of 15 stages (approx. 2 KLux to 100 KLux). Press the STOP button to restore the default threshold (approx. 25 KLux).

<table>
<tr><td></td><td> </td><td>Briefly press the function button to go to the settings for the wind threshold.

▻ The LED ring of the transmitter shows the currently set wind threshold by lighting up red and white.

Press the ▲ / ▼ button to adjust the threshold to one of 11 stages (approx. 2 m/s to 22 m/s).

At the highest stage, the LED ring lights up completely red, and the selected receiver will only react to extremely high wind strengths. Press the STOP button to restore the default threshold (approx. 8 m/s).</td></tr>
<tr><td></td><td> </td><td>Briefly press the function button to go to the settings for the rain reaction.

▻ The LED ring of the transmitter shows the currently set rain reaction.

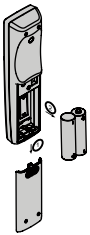
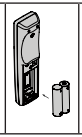
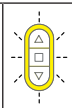
<table><tr><td>Lights up with a blue rotational movement in the UP direction</td><td>The receiver retracts when it rains.</td></tr><tr><td>Lights up blue in the centre</td><td>The receiver does not react to rain.</td></tr><tr><td>Lights up with a blue rotational movement in the DOWN direction</td><td>The receiver extends when it rains.</td></tr></table>
Set the desired reaction by pressing the ▲, STOP or ▼ button.</td></tr>
</table>

3s	M 1x 	Press and hold the function button for at least 3 seconds to adopt the set thresholds and to switch to normal mode. ▻ The receiver confirms. ▻ The LED ring of the transmitter goes out. ► This completes the process.

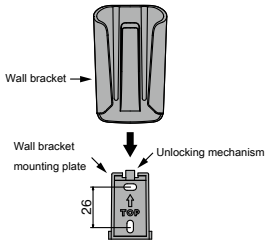
When setting the threshold, ensure that no button is pressed. If the set sun threshold value is exceeded, the sun protection system extends after a delay of up to 5 minutes. The sun protection system automatically retracts after the sunshine level has been continuously below the threshold value for about 15 minutes.

Restoring the factory settings of the hand-held transmitter

When the factory settings of the transmitter are restored, the settings in the receiver, such as run times, thresholds, intermediate positions, etc. as applicable, are not taken into account.

	Open the cover of the battery compartment and take out the batteries.
●	After approx. 3 s, press and hold down the programming button.
●  	Re-insert the batteries while keeping the programming button pressed down. ▻ The transmitter confirms with 4 yellow flashes of the LED ring.
	You can now release the programming button and close the cover of the battery compartment. ► The factory settings of the transmitter have been restored.

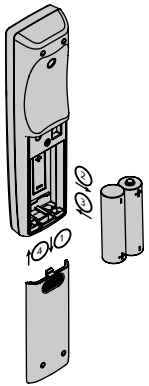
Installing the wall bracket



- Before installation in the desired installation position, check that the transmitter and receiver are functioning properly.
- Use two suitable screws to fix the bracket to the wall.

Changing batteries

You will find the appropriate battery type in the "Technical data" chapter.



Change the batteries within a minute and do not press any buttons in the process. After the batteries are inserted, the LED ring of the transmitter indicates the current battery charge for a short time. When the LED ring is blue and 100% full, the battery is fully charged and when the LED ring is 50% full, the battery charge is half, and so on.

1. Open the cover of the battery compartment.
2. Take out the batteries.
3. Insert the new batteries correctly.
4. Close the cover on the battery compartment.

Cleaning

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

Disposal

The crossed-out bin symbol on the product indicates that the device is subject to mandatory disposal separate from household waste. This product must be handed over to a collection point for electrical and electronic equipment at the end of its service life.
Remove the battery/batteries and dispose of them at the designated recycling points, and not as household waste.
The packaging material must be disposed of properly.

Technical data

Rated voltage	3 V DC
Battery type	LR6 (AA) Alkaline
Degree of protection	IP 20
Permissible ambient temperature	-10 to +55°C
Maximum emitted transmission output	⩽ 3 mW
Radio frequency	915.3 MHz

The maximum transmitter range on and in the building is up to 15 m, and up to 150 m in the open.

What to do if…?

Problem	Remedy
Tubular drive/receiver is not responding.	Insert new batteries into the hand-held transmitter.
	Insert batteries into the hand-held transmitter correctly.
	Reduce distance from receiver.
	Program transmitter.
	Check the receiver.
LED ring flashes yellow or red 4 times.	Insert new batteries into the transmitter.
The LED ring on the hand-held transmitter lights up red when the receiver for the setting mode is selected.	Reduce distance from receiver.
	Check electr. connection of the receiver.
	Put the receiver into programming mode.
	Add the transmitter to the installation.
Automatic drive commands are not executed.	Check whether automatic mode is active.
System does not extend in automatic mode.	Adjust sun threshold value.
	Wait for the wind to die down.
System does not extend in automatic or manual mode.	Wind threshold value exceeded. Wait for the wind to die down.

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