

Venetian Blind Control GFU004 for flush mounted installation

GFU004

Operating instructions

1. General

The **GFU004** is a Venetian blind control for flush-mounted installation. It has connections for two external push-buttons, for the tubular motor and for the mains connection. The operation and the control installation are effected via operating button, radio transmitter, sun/ wind / rain / service radio sensors and an internal programming button.

In order to have the control respond to a radio transmitter, the radio code of the respective transmitter has to be programmed. A 433 MHz radio receiver and a proximity detector which is needed for the programming are integrated into the control. During assembly, please make sure that the stationary transmitters are more than 2 m away from the receiving antenna.

You also have the option to connect a switch with two buttons / two switching functions in order to allow selective turning on and off. These buttons must be potential-free. Please do not use here 230 V. This would damage the control.

Different acoustic signals are emitted by the control during programming.

1.1 Operation via push button and two-key transmitter

Control status	Operated key	Reaction of the control
Retract	UP (approx. 1,5 to 2 seconds)	The blind moves in lock condition to the upper stop position
Extend	DOWN	The blind moves in lock condition to the lower stop position or until expiration of the programmed time (factory setting = 90 sec.)
Stop	Travel direction counter-key (approx. 0,5 to 1 sec.)	Actuating the counter key stops the travelling motion immediately
Move on	Actuate several times the direction key	The travelling motion will continue without interruption
Lamellae «OPEN»	UP (approx. 0,2 to 1 sec.)	Actuate shortly the key to change the lamellae setting angle
Lamellae «CLOSE»	DOWN (approx. 0,2 to 1 sec.)	Actuate shortly the key to rotate the slats in closing direction

The assignment of the transmitter buttons to the control commands is determined by the user while learning.

1.2 External buttons

Two external buttons can be connected to the inputs In1 (UP) and In2 (DOWN). The function of the external buttons is identical to the radio transmitter buttons. The blind control can also be programmed directly with the external buttons. In this case the white button on the controller is pressed for 3 seconds and an audible signal is emitted to confirm the activation of the learning operation. By simultaneous operation of radio and external switches the command which was first transmitted to the control unit has priority.

1.3 Disabling the learning mode

For safety reasons, the control programming is only possible within the first 30 minutes after switching on the mains voltage. After the control blocks the learning procedure so that unauthorized persons have no access to the programmed parameters. To modify the control setting, please power off and then back on.

2. Learning mode / control set up

- A maximum of three different transmitters can be learned. The control can therefore be a part of three independent groups.
- If three transmitters have already been learned and if an attempt is made to learn a 4th one, the last transmitter actually stored is deleted and the new transmitter stored instead.
- If you try to learn a transmitter whose radio code has already been learned, then the learning will be denied and a rapid succession of short tones is emitted. The control expects a different radio code.
- Should no action be taken within 30 seconds, the learning mode will be deactivated! You will hear six signal tones and the control returns to normal operation.
- You can only delete all learned remote codes together. The assignment of the motor direction to the relay is reset to the standard setting.
- Two different radio codes can be learned for the reception of the sensors.
- If a third sensor is learned, the second one will be overwritten.

2.1 Learning a transmitter

The order sequence is specified: the first input on a transmit button receives the function UP, the second input the function DOWN.

1. Hold the transmitter to be learned directly to the receiving antenna and press a key about 3 seconds until an audible signal is emitted. The learning mode is activated.
2. Keep holding the transmitter to the receiving antenna and activate briefly the key for the UP command. The radio code is learned and an audible signal is emitted for acknowledgement.

The control returns to normal operating mode.

2.2 Deleting the learned transmitter

1. Hold any transmitter directly to the receiving antenna and actuate a key about 3 seconds until an audible signal is emitted. The control has changed over to learning / deleting mode.
2. Hold the transmitter directly to the receiving antenna and actuate any key about 5 seconds until a long tone is emitted. All stored radio codes - radio codes of the sensors as well – will be deleted. Then the control returns to normal operating mode.

2.3 Interchanging of the relay assignment

1. Hold any transmitter directly to the receiving antenna and actuate a key about 3 seconds until an audible signal is emitted. The control has changed over to the learning mode.
2. Hold the transmitter about one meter away from the receiving antenna and actuate a key once. An audible signal is emitted.
3. Now hold the transmitter close to the antenna again and actuate a key. The relay assignment to the directions UP and DOWN is changed and an audible signal is emitted. The setting is stored and the control returns to normal operating mode again.

2.4 Learning of the motor running time and of the lamellae setting angle

1. Power off and on the mains voltage (available time: 30 minutes!)
2. Hold the hand-held transmitter close to the antenna and keep a button depressed for approx. 3 sec. till an audible signal resounds (long tone). In order to adjust directly the control, keep the white button on the controller depressed for approx. 3 sec.
3. **IMPORTANT!** Keep the hand-held transmitter at least 2 meters away from the controller.
4. Keep the UP button (or ext. button In1) depressed in order to retract the blind completely.
5. Upon reaching the upper limit position actuate briefly the DOWN button (or ext. button In2)
6. Then press the button DOWN (or ext. button In2) for about 2 seconds - the blind moves down automatically.
7. Actuate shortly button UP when the lower end position or the desired end position is reached
8. After completion of the running time learning procedure, the control changes over all automatically to the lamellae setting angle learning mode.
9. Briefly actuate the UP / DOWN buttons (or ext. buttons IN1/IN2) to set the desired angle
10. Hold again the hand-held transmitter close to the antenna and keep a button depressed for approx. 3 seconds (or keep the white button directly on the control depressed for approx. 3 seconds).
11. Motor running time and lamellae setting angle are now learned and stored.

2.5 Subsequent modification of the lamellae setting angle

1. Power off and on the mains voltage (available time: 30 minutes!)
2. Actuate button DOWN (or ext. button IN2) to move the blind down to the end position
3. Hold the hand-held transmitter close to the antenna and keep a button depressed for approx. 3 sec. till an audible signal resounds (long tone).
4. **IMPORTANT!** Keep the hand-held transmitter **at least 2 meters** away from the controller.
5. Briefly actuate the UP / DOWN buttons (or ext. buttons IN1/IN2) to adjust the desired angle
6. Hold again the hand-held transmitter close to the antenna and keep a button depressed for approx. 3 seconds (or keep the white button directly on the control depressed for approx. 3 seconds).

2.6 Funksensoren

The control is able to learn the radio codings of two different sensors. In the event a sensor coding has been learned, the control responds, provided the related sensors have been coded accordingly, to the reception of the following radio sensor commands: „sun“, „evening twilight“, „wind“, „rain“ and „service“.

- Upon the reception of the sensor command „sun too bright“ an extend command is triggered provided that the sun automatic function is enabled. The „retract“ command will be issued upon the reception of the sensor command „sun dark“.
- Upon the reception of the sensor commands „wind“ or „service“, a retract command is triggered and a certain pre-programmed disable time starts running. No operation can take place during the disable time, as both the sun and the twilight sensor are disabled.

- Upon reception of the sensor command „rain“, a retract command is triggered and a certain pre-programmed disable time starts running. During the disable time, both the „sun“ and the „twilight“ sensor are disabled. Operation in manual mode is nevertheless possible via the hand-held transmitter along with the related control inputs. The system responds again to the reception of „rain“ commands only after the expiry of the pre-programmed disable time.

Attention! Manual operation of the controller has precedence over sun automatic operation.

- Every manual operating command of the controller interrupts automatic mode with sun and twilight sensors. The automatic sun function is active again when the blind is fully retracted again (the taught motor run time or the fixed run time of 90 seconds must have expired).
- If a handheld transmitter (e.g. GF0004) with the special functions “block / enable automatic sun function“ was taught into a memory location for sensors, the automatic sun function can be blocked and enabled again irrespective of the previous operation. These special commands have no cancelling effect on the initiated delay times.

Attention! After the mains voltage is switched on, the sensors are initially enabled.

2.7 Learning a radio sensor

1. Hold any transmitter directly to the receiving antenna and actuate a key about 3 seconds until an audible signal is emitted. The learning mode is activated.
2. Activate the sensor whose radio code is to be learned. An audible signal is emitted. The control then changes automatically to normal operation mode again.

2.8 Delete a radio sensor

A single radio code cannot be deleted. See „delete learned transmitters.“

2.9 Factory setting

The device is delivered pre-coded with GEIGER coding. For the first learning, the GEIGER code will be replaced by a transmitter code. Set the individual code on the handheld transmitter via DIP switch (see operating instructions handheld radio transmitter).

3. Audible signals emitted by the control for fault diagnosis

1 long and 1 short tone	“Power on” signalling message after mains power on
1 long tone	The learning mode operation was activated
1 long tone	A radio code has been learned and stored
Rapid succession of short tones	Error message: The radio code to be learned is already assigned otherwise
6 tones	Error message: the learning procedure was aborted because time has expired
1 very long tone	All radio codes are deleted.
1 long tone	The assignment of the relays to the travel directions UP and DOWN has been interchanged.
Control signals SOS	Error message: memory module is defective. The control needs to be mended
Short tones emitted in intervals of approx. 500 ms	Error message: Data stored in the memory module got lost. Submit the control to a new learning procedure. In the event this fault reoccurs, the control should be repaired.

4. Technical characteristics GFU004

Supply voltage	230 V (+/-10%) / 50 Hz
Motor running time	Retracting 140 sec. + 15 sec. reserve / Extending 140 sec.
Intermediate position	times within a range from 5 up to 140 seconds learnable after the complete retraction of the blind and the expiry of the motor run time.
Relay switching current (resistive)	3 A
Protection class	IP 00
Dimensions	approx. 52 x 47 x 27 mm

Subject to technical changes

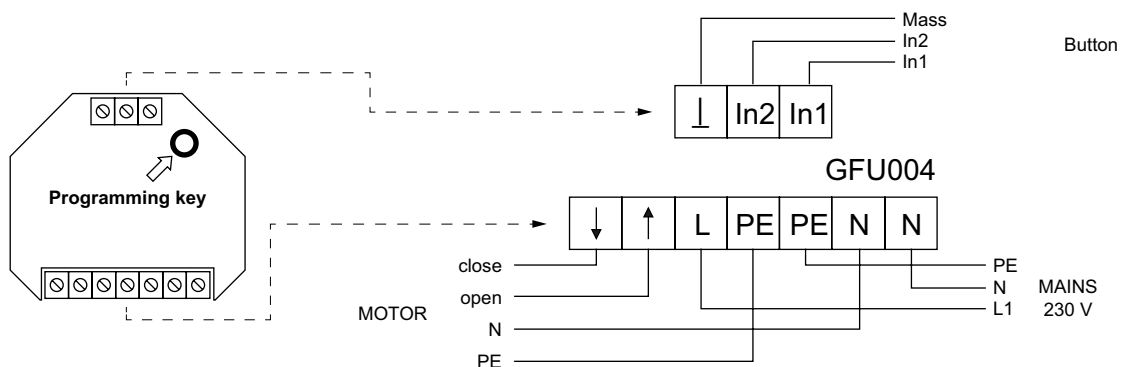


5. Declaration of Conformity

The Declaration of Conformity concerning this product is available on our website: www.geiger.de.

6. Connection Diagram

These buttons must be potential-free. Please do not use here 230 V. This would damage the control.



7. Waste Disposal

Recycling of packaging materials

In the interest of environmental protection, please contact your local government's recycling or solid waste management department to learn more about the services it provides.

Waste disposal of electric and electronic equipment

Electronic equipment or batteries cannot be discarded along with the normal household waste. Keep for more information on the recycling and disposal methods envisaged by the local regulations in your area.

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

GEIGER
ANTRIEBSTECHNIK

Gerhard Geiger GmbH & Co. KG
Schleifmühle 6 | D-74321 Bietigheim-Bissingen
T +49 (0) 7142 9380 | F +49 (0) 7142 938 230
info@geiger.de | www.geiger.de

