

# Rolling Shutter Control GFU001 for flush mounted installation

## GFU001

### Operating instructions

#### 1. General

The **GFU001** is a rolling shutter control for flush-mounted installation. It has connections for a control button UP / DOWN, for the tubular motor and for the mains connection. The operation and the control installation are effected via button, radio transmitter and sun/ wind radio sensors.

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.

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#### 1.1 Operation via push button and two-key transmitter

| Control status | Operated key | Reaction of the control  |
|----------------|--------------|--------------------------|
| Stop           | UP           | UP                       |
| UP movement    | UP           | UP direction remains     |
|                | DOWN         | Control switches to STOP |
| DOWN movement  | DOWN         | DOWN direction remains   |
|                | UP           | Control switches to STOP |

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

## 1.2 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.

#### 2.1.1 Learning the transmitter

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.
3. The control returns to normal operating mode.

#### 2.1.2 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.

#### 2.1.3 Setting the control key 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.

## 2.2 Radio sensors

### 2.2.1 General information on radio sensors

The controller responds to the sun and wind signals of all GEIGER radio sensors.

1. The sun sensor function can be disabled.

Manual lock: Any operation using a handheld transmitter locks the function of the solar sensor. The manual lock is released when the control, in the end position UP, turns off after the motor running time of 90 seconds.

Remote lock: The remote controlled lock is turned on/off by special sensor commands. The sun and twilight function is disabled if it is locked either manually or remote-controlled. It is released when it is released both manually and remote-controlled.

2. The enabled or disabled state of the sun sensors is stored in battery backed memory.
3. Grouping of sun sensors: Two sun sensors which are learned with different sensor codes form a group. When at least one sun sensor signals "bright sun" the shutter closes down. Both sensors must notify "dark sun", so that the shutter opens. If only one sun sensor is used, the group formation of the sun sensors is not active. Group formation of indoor sun sensors is not possible. The state of the grouping of the sun sensors is stored in battery backed memory. If a solar sensor fails during group operation and sends no signal (about 60 minutes), the group function is deactivated.
4. Remote-controlled switching on/off sun sensor function for device groups: The first sensor code to be learned is in each device the individual sensor code of the sun sensor. The second sensor code to be learned is in each device the same radio code for enabling/disabling the sun sensors. Each device will respond to its own sun sensor and all devices can be simultaneously locked or released with one transmitter.

### 2.2.2 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.

### 2.2.3. Delete a radio sensor

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

### 2.2.4. 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).

## 2.3 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. |

### 3. Technical characteristics GFU001

|                                     |                        |
|-------------------------------------|------------------------|
| Supply voltage                      | 230 V (+/-10%) / 50 Hz |
| Motor running time                  | about 90 seconds       |
| Relay switching current (resistive) | 3 A                    |
| Protection class                    | IP 00                  |
| Dimensions                          | about 52 x 47 x 27 mm  |

Technical subject to change

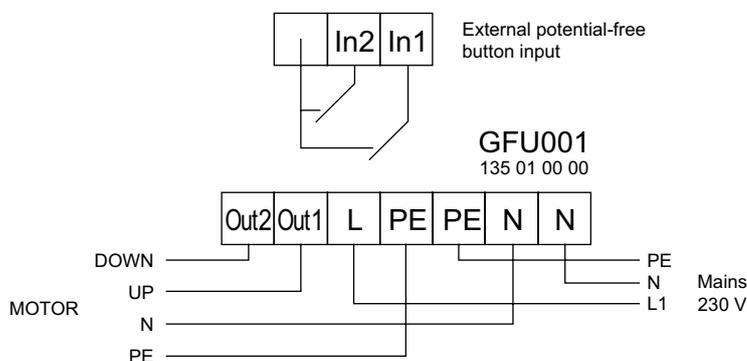


### 4. Declaration of Conformity

We herewith explicitly declare that this product complies with the essential requirements and relevant directives. It is authorised for use in all EC 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).

### 5. Connection Diagram



### 6. 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.

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

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