



Models

RCU01-4102M-01: 433.92 MHz
 RCU01-5002M-01: 868.3 MHz

Package Content

Universal Receiver
 Rod antenna (only 433.92 MHz)
 Mounting accessories
 Operating instructions

Technical Data

Frequency: 433.92 or 868.30 MHz
 Power supply: 230 V AC / 12-24 V DC
 Output: 2 potential-free relay contacts
 Max. load: 230 V AC / 1.800 VA
 30 V DC / 3 A / 120 W
 Response time: approx. 1 second
 Degree of protection: IP 65
 Operating temperature: -20°C to +60°C
 Dimensions: 162 x 70 x 38 mm
 (without rod antenna)
 Weight: approx. 250 g

Intended Use

The unit may only be used as a radio control system together with low voltage or mains voltage devices!
 The manufacturer does not assume any liability for damage caused as a result of improper or non-intended use!

Safety Advice



Warning! During programming, the Universal Receiver is live!

Do not touch the terminals! Only use suitable tools!

Carefully read through these instructions before connecting and operating the radio control!

Caution! Electrical installation may only be carried out by a qualified electrician!

Observe the applicable laws, standards and regulations, particularly EN 60669!
 Have faulty units checked by the manufacturer!

Do not make any unauthorized alterations or modifications to the unit!

Non-observance of the installation instructions may cause fire or other hazards.

Function

The unit is a universally applicable two channel receiver, which can be operated both with low voltage and mains voltage.

The receiver can memorize 4 transmission codes for each channel. For each channel different operating modes can be programmed: Impulse, ON/OFF (1- and 2-button operation), timer (30 seconds and 3 minutes), continuous and awning operation.

General Information

Do not mount the receiver near the floor or near large metal objects!

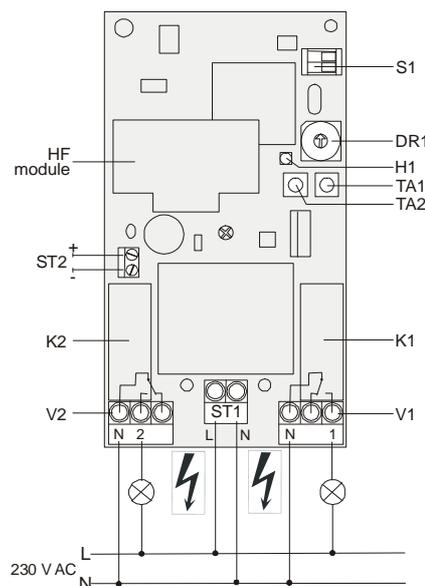
The maximum length of all connecting cables may not exceed 3 m.

The reception quality can be affected by a number of factors:

- location
- equipment and systems without interference suppression
- other transmitters within the frequency range
- atmospheric conditions and other factors.

In case of malfunctions, contact your dealer or the manufacturer.

Connection Diagram



- S1 Dip switch for memory location select
- DR1 Rotary switch for operating mode select
- H1 LED
- TA1 Programming button for channel 1
- TA2 Programming button for channel 2
- K1 Relay 1 for device 1
- K2 Relay 2 for device 2
- V1 Connecting terminal for relay 1
- V2 Connecting terminal for relay 2
- ST1 Connecting terminal for mains voltage 230 V AC
- ST2 Connecting terminal for low voltage 12-24 V DC

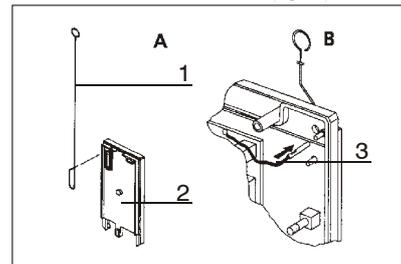
Start-Up

Start-up the Receiver in three steps:

1. Installing the radio control
2. Programming the operating mode
3. Memorizing the transmitter codes

Installing the Receiver

1. Unscrew the housing cover.
2. (only 433.92 MHz) Mounting the rod antenna: Feed the rod antenna 1 from the back through the back plate 2 into the receiver (fig. A). Connect the aerial wire 3 of the HF module to the rod antenna (fig. B).



3. Using the screws and dowels supplied, mount the receiver on the wall.
4. Connect the low voltage or mains voltage devices to be switched to the connecting terminals V1 or V2 according to the connection diagram. The connecting terminals are plug-type terminals.

Max. contact rating:
 230 V AC / 1.800 VA
 30 V DC / 3 A / 120 W

5. Connect the power supply cables to the connecting terminal ST1 (mains voltage 230 V AC) or ST2 (low voltage 12-24 V DC) according to the connection diagram. The connecting terminal ST1 is a plug-type terminal.

Note: All cables are to be fed into the radio control via the openings on the bottom using the watertight PG screw fittings.

6. Switch on the supply voltage. The LED H1 lights up for approx. 1 sec.
7. Carry out a function check: Press any button of the radio transmitter. The LED H1 of the receiver should flash rapidly.

Programming the Operating Mode



Warning! During programming, the Universal Receiver is live!

Do not touch the terminals! Only use suitable tools!

Note:

For each channel a different operating mode can be programmed.

1. Select the operating mode via rotary switch DR1 according to the following table.
2. Press and hold the programming button for the desired channel (TA1 or TA2), until the LED H1 lights up for approx. 1 second.

DR1	Operating Mode
0	Impulse Relay operates for approx. 1 sec.
1	On/Off (1-Button Operation) 1 st transmission: Switching on 2 nd transmission: Switching off
2	Timer 30 Seconds After transmission, the device is switched on for 30 seconds. If a new signal is transmitted within this 30 s period, the 30 s timer is re-started.
3	Timer 3 Minutes as for setting 2, but with a period of 3 minutes
4	Memorizing transmission codes
5	Deleting transmission codes
6	Continuous Operation Relay operates as long as the transmitter button is pressed.
7	Awning Operation 1 st transmission: Channel 1 switched on for max. 2 minutes 2 nd transmission: Channel 1 switched off 3 rd transmission: Channel 2 switched on for max. 2 minutes 4 th transmission: Channel 2 switched off
9	On/Off (2-Button Operation) Transmitter button 1: Switching on Transmitter button 2: Switching off

Note:

On the operating mode 7 („Awning Operation“) the two channels interact simultaneously. Only one of the programming buttons (TA1 or TA2) has to be pressed in order to program the operating mode.

Memorizing the Transmission Codes

4 different transmission codes can be memorized for each channel.

The memory locations for the transmission codes can be selected via dip switch S1.



1. Select a memory location via dip switch S1.

a) Operating Modes 0 to 3, 6, 7

	1	2
Transmitter 1:	OFF	OFF
Transmitter 2:	ON	OFF
Transmitter 3:	OFF	ON
Transmitter 4:	ON	ON

b) Operating Mode 9

Transmitter Button	Function	1	2
Button 1:	Off	OFF	OFF
Button 2:	On	ON	OFF
Button 3 or Transmitter 2/ Button 1:	Off	OFF	ON
Button 4 or Transmitter 2/ Button 2:	On	ON	ON

2. Turn rotary switch DR1 to position 4 („Memorizing Transmission Codes“).
3. Press and hold the programming button for the desired channel (TA 1 or TA2) until the LED H1 of the receiver flashes.
4. Within the next 10 s, press the transmitter button which is supposed to control this channel. After memorizing the transmission code, the LED H1 of the receiver lights up constantly for approx. 2 s and then turns off. Release the transmitter button.
5. Repeat steps 1 to 4 for the other transmitters or transmitter buttons.
6. Screw the housing cover back on.

Note:

If a new transmission code is memorized on a memory location, the old code memorized on that location is deleted.

Deleting the Transmission Codes

1. Select the memory location to be deleted via dip switch S1.
2. Turn rotary switch DR1 to position 5 („Deleting Transmission Codes“).
3. Press and hold the programming button for the desired channel (TA 1 or TA2) until the LED H1 of the receiver lights up. The transmission code on the selected memory location is deleted.

Cleaning the Receiver

Wipe the housing carefully with a damp lint free cloth.

Caution:

Do not use cleansing agents containing organic solvents. These are dangerous to your health and may damage the surface of the housing.

Disposal

Waste electrical products may not be disposed of with household waste!

Dispose of the waste product via a collection point for electronic scrap or via your specialist dealer.



Put the packaging material into the recycling bins for cardboard, paper and plastics.



Warranty

Within the statutory warranty period we undertake to rectify free of charge by repair or replacement any product defects arising from material or production faults.

Any unauthorized tampering with, or modifications to, the product shall render this warranty null and void.

Conformity

This product complies with the essential requirements of the R&TTE Directive 1999/5/EC.



The Declaration of Conformity can be found on the Internet at: www.eldat.de.

Customer Service

If, despite correct handling, faults or malfunctions occur or if the product was damaged, please contact the company at the address below:

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