

GB Universal Receiver RCU01 (4-Channel)





Models

RCU01-4104M-01: 433.92 MHz RCU01-5004M-01: 868.3 MHz

Package Content

Universal Receiver incl. HF antenna, Mounting accessories, Screw fittings set, Operating instructions

Technical Data

Frequency: 433.92 or 868.30 MHz Power supply: 230 V AC / 12-24 V DC 4 potential-free relay Output: contacts

Max. load: 230 V AC: see Table 30 V DC: 3 A / 90 W

Response time: approx. 1 second

Degree of protection: IP54

Operating temperature: -20℃ to +60℃ Dimensions: 150 x 110 x 50 mm Weight: approx. 500 g

Intended Use

The unit may only be used as a radio control system together with low voltage or mains voltage devices!

The manufacturer shall not be liable for any damage caused by improper or nonintended use!

Safety Advice



Warning! While being programmed, the Universal Receiver is live!

Do not touch the terminals! Only use suitable tools!

Carefully read through these instructions before connecting and operating the Universal Receiver!

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

Observe the applicable laws, standards and regulations, particulary EN 60669!

Caution! The primary input of the Universal Receiver must be protected by a 50 mA fuse.

Have faulty units checked by the manufac-

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 four channel radio control system, which can be operated both with low voltage and mains

The Universal 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 opera-

General Information

Do not mount the Universal Receiver near the floor or near large metal objects!

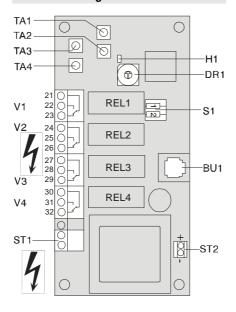
The maximum length of all connecting cables may not exceed 3 m.

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

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

In case of malfunctions, please 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 – TA4 | Programming buttons for channels 1-4 |
| REL1 – REL4 | Relays 1-4 for devices 1-4 |
| V1 – V4 | Connecting terminals for relays 1-4 |
| BU1 | Antenna socket |
| ST1 | Connecting terminal for mains voltage 230 V AC |
| ST2 | Connecting terminal for low voltage 12-24 V DC |

Start-Up

Start-up the Universal Receiver in three steps:

- 1. Installing the Universal Receiver
- 2. Programming the operating mode
- 3. Memorizing the transmission codes

Installing the Universal Receiver

- 1. Unscrew the housing cover.
- 2. Use the screws and mollies supplied, to mount the Universal Receiver on the
- Connect the low voltage or mains voltage devices to be switched to the connecting terminals V1 to V4 according to the connection plan. The connecting terminals are plug-type terminals.

Max load:

230 V AC: see Table of Loads 30 V DC: 3 A / 90 W

4. 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 plan. The connecting terminal ST1 is a plugtype terminal.

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

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

Table of Loads (AC)

| Type of load | Max. load 230 V AC / 50Hz |
|---|------------------------------|
| Resistive load: Light bulbs, 230 V Halogen lamps etc. | 8 A / 1,840 VA |
| Inductive load: Halogen lamps with wound transformers (transformer at least 85% loaded) | 2.6 A / 600 VA |
| Non-compensated or series- compensated fluorescent lamps with ferromagnetic ballast | 8 A / 1,840 VA |
| Parallel-compensated fluorescent lamps with ferromagnetic ballast | 2.6 A / 600 VA |
| Capacity EB: electronic ballast, electronic transformers etc. | 4 A / 920 VA |

Programming the Operating Mode



Warning! During programming, the Universal Receiver is live!

Programming may only be carried out by a qualified electrician!

Do not touch the terminals!

Only use suitable tools!

Note: You can program a different operating mode for each channel.

- Select the operating mode via rotary switch DR1 according to the following table
- Press and hold the programming button for the desired channel (TA1, TA2, TA3 or TA4), 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)
1st transmission: Switching on
2nd 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 restarted.

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

1st transmission: Channel 1 or 3 switched on for max. 2 minutes 2nd transmission: Channel 1or 3 switched off

3rd transmission: Channel 2 or 4 switched on for max. 2 minutes 4th transmission: Channel 2 or 4 switched off

3 4-channel controlling

All 4 channels are jointly controlled. (only together with ELDAT data radio transmitters)

9 On/Off (2-Button Operation)

Transmitter button 1: Switching on Transmitter button 2: Switching off

Note: On the operating mode 7 ("Awning Operation") two channels (1 and 2 or 3 and 4) interact simultaneously. Only one of the programming buttons (TA1 or TA 2 and TA3 or TA4) has to be pressed in order to program the operating mode.

Memorizing the Transmission Codes

You can memorize 4 different transmission-codes for each channel.

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



 Select a memory location via dip switch S1.

a) Operating Modes 0 to 3 and 6 to 8

| | 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").
- Press and hold the programming button for the desired channel (TA1,TA2, TA3 or TA4) until the LED H1 of the Universal 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 Universal 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.

<u>Note:</u> If a new transmission code is memorized on a memory location, the old code memorized on that location is deleted.

Deleting the Transmission Codes

- Select the memory location to be deleted via dip switch S1.
- Turn rotary switch DR1 to position 5 ("Deleting Transmission Codes").
- Press and hold the programming button for the desired channel (TA 1,TA2, TA3 or TA4) until the LED H1 of the Universal Receiver lights up. The transmission code on the selected memory location is deleted.

Cleaning the Universal Receiver

Wipe the housing carefully with a damp lint free cloth.

<u>Caution:</u> Do not use solvent-based cleaning agents. These can damage your health and destroy 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 conforms to the basic 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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