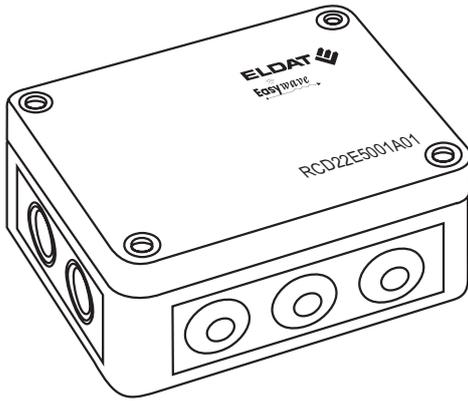


Model



RCD22E5001A01

Technical Data

Frequency:	868.30 MHz
Modulation:	FSK
Coding:	Easywave
Output:	RS232 interface
Power supply:	230 V AC 50 Hz
Power consumption:	1.5 W standby
Degree of Protection:	IP66 (in delivery state)
Operating temperature:	-20 °C to +60 °C
Dimensions (w/l/h):	34.5/89.6/62.8 mm
Weight:	260 g

Scope of Delivery

Radio control RCD22, mounting accessories, operating instructions

Intended Use

The device is only intended as a radio receiver for receiving Easywave radio telegrams and outputting hexadecimal values.

The manufacturer shall not be liable for any damage caused by improper or non-intended use.

Safety Advice



Carefully read through these instructions before connecting and operating the unit!

**Caution! Electrical installation may only be carried out by a qualified electrician; otherwise there is a risk of electric shock or fire.**



Observe the applicable laws, standards and regulations as well as the manufacturer's instructions for the devices to be operated!

The control unit may not be operated by children or unauthorised persons!

Have faulty units checked by the manufacturer!!  
Do not make any modifications to the device!

Function

The RCD22 receives Easywave telegrams and forwards them as hexadecimal values via the RS232 interface to a receiving device (PC).

Where environmental conditions are unfavorable, the external antenna ACC-ANT50-03-21P can be connected to improve wireless reception. This is not included with the product, but can be ordered separately.

INSTALLING THE RECEIVER

Mounting

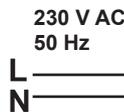
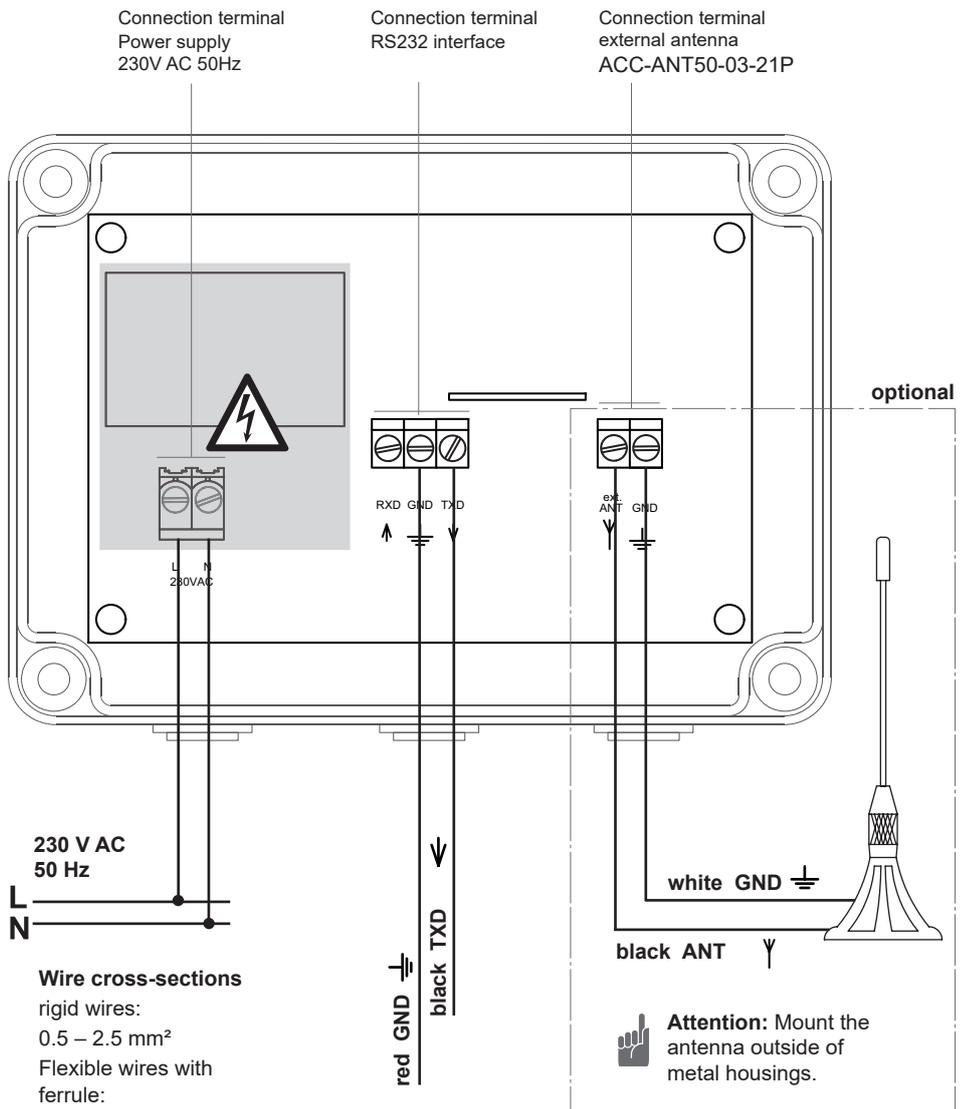
Do not install the control near the floor or in niches, as there may be a radio shadow here. When mounting on metal surfaces, a minimum distance of 10 cm should be maintained.

The receiver must be installed by a qualified electrician, connected according to the connection diagram and put into operation.

1. Switch off the power supply.
2. Unscrew the housing cover.
3. Attach the controller to the installation site. Use the screw gears of the cover screws.

4. Push the connection cable through the double-membrane seals. Pull the cable back briefly to form the seal.
5. Connect the connecting cables for the RS232 interface to GND and TXD according to the „Terminal assignment RCD22“.
6. Connect the connecting cables for the power supply according to the terminal assignment.
7. Screw the housing cover back.
8. Switch on the power supply.

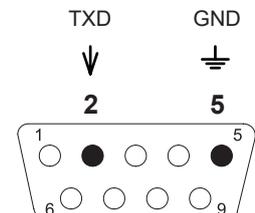
Terminal assignment RCD22



**Wire cross-sections**  
rigid wires:  
0.5 – 2.5 mm<sup>2</sup>  
Flexible wires with ferrule:  
0.5 – 1.5 mm<sup>2</sup>

Terminal assignment 9-pin Sub-D socket

Connection cable	RCD22	Pin	PC
black	TXD →	2	→ RXD
red	GND	5	GND



## DATA EXCHANGE

### Set up serial interface

Configure the serial interface as follows:

Transmission speed:	9,600 Bd
Start bit:	1
Data bits:	8
Stop bit:	1
Parity:	no
Hardwarehandshake:	no
XOn/XOff:	no

### Receive Easywave telegram

Start a corresponding terminal program with hexadecimal display options.

The control sends a life telegram to the PC every 2 seconds. (A5h 04h 1Bh 00h 0Ah 0Dh). This enables you to check whether the interface settings have been made correctly.

### Telegram structure : Easywave telegram

Byte	Content	Description
1	A5h	start ID for telegram
2	08h	number of following bytes
3	30h	telegram type ID of transmitter telegram
4	00000000 = 0Xh	
5	xxxxxxx = XXh	serial number Bit 16- 23   23   22   21   20   19   18   17   16
6	xxxxxxx = XXh	serial number Bit 8-15   15   14   13   12   11   10   9   8
7	xxxxxxx = XXh	serial number Bit 0-7   7   6   5   4   3   2   1   0
8	xxxxxxx = XXh	input or label information Bit 0-7   7   6   5   4   3   2   1   0
9	0Ah	End ID 1
10	0Dh	End ID 2

### Telegram structure : life telegram

Byte	Content	Description
1	A5h	start ID for telegram
2	04h	number of following bytes
3	1Bh	Request to send to PC
4	00h	Request to send to PC
5	0Ah	End ID 1
6	0Dh	End ID 2

## General Information

### Disposal

**Waste electrical products should 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

We will remedy defects on the device based on material or production errors within the statutory warranty period or exchange the device.

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

### Conformity

Hereby, ELDAT EaS GmbH declares that the radio equipment type RCD22 is in compliance with Directive 2014/53/EU. The full text of the EU declaration of conformity is available at the following internet address: [www.eldat.de](http://www.eldat.de)



### Customer Service

If the device does not work properly despite proper handling or in case of damage, please contact the manufacturer or your retailer.

#### ELDAT EaS GmbH

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