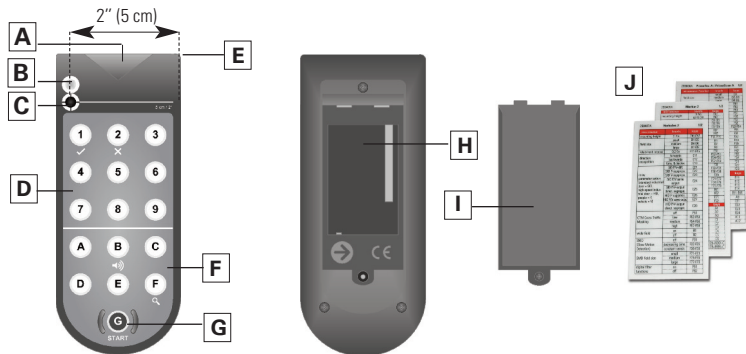


# RC Duo 2

## 1 General information

### 1.1 Parts of the remote



- A** Transmitter/receiver (infrared)
- B** Status indicator LED
- C** Safety curtain infrared spot detector
- D** Numerical keys (1 to 9)
- E** 2" (5 cm) spacing for safety curtain infrared spot finder
- F** Function keys (A to F)
- G** Start button - power on (2 sec) & establish connection
- H** Battery compartment
- I** Battery compartment cover
- J** Quick reference guides (stored in slot on battery compartment cover)

### 1.2 Shortcut buttons

- ✓ **1** On/Yes (only for certain parameters)
- ✗ **2** Off/No (only for certain parameters)
- 🔊 **B** Turns beeper function on/off (hold for 2 sec)
- 🔍 **F** Scans for available addresses/sensors (hold for 2 sec)

## 2 Turning on the remote



**The RC Duo 2 must be powered on before it can communicate with the sensor.**

**POWER ON:** Press and hold **G** for 2 seconds

**POWER OFF\*:** Press and hold **G** for 2 seconds

\*The remote will automatically turn off after 2 minutes if no button is pressed.



## 3 Communication with the sensor

### 3.1 Establishing connection with the sensor

Once the remote has been powered on, **G** will illuminate in red and begin to blink. To establish a connection with a particular sensor, aim at the sensor and press **G**. The sensor's address (1 - 7) will illuminate on the keypad. The sensor's LED will briefly illuminate to confirm communication. The RC Duo 2 is now ready to program the sensor. For help in selecting a particular sensor out of several, see section 4.3, sensor scan mode.

The connection between the RC Duo 2 remote control and the sensor can only be established while the sensor is in **configuration mode**. Configuration mode is activated when the sensor is switched on. For safety reasons, this mode is exited automatically 30 minutes after the last setting has been made, and the connection between the remote control and the sensor is interrupted.

The connection can be **re-established** in one the following ways:

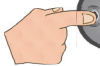
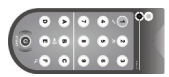
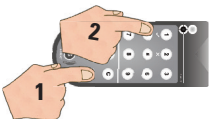
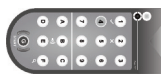

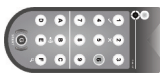


- **Pressing a button on the sensor** OR
  - **Interrupting the electrical power supply to the sensor** OR
  - Using the "access code" function on the remote control (only available on some sensor models)
- Please refer to the sensor user manual for more information.

### 3.2 Setting sensor parameters

The RC Duo 2 functions bidirectionally with the sensor. This means that changes to the settings on the sensor are immediately signalled back by the sensor to the remote control.

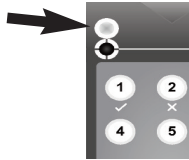
EXAMPLE: the steps for setting the **Hercules sensor mounting height (parameter F4)** are shown below:

 <p>Ensure remote is powered on (section 2) and sensor is in configuration mode (section 3.1)</p> <p>Once <b>G</b> blinks, press <b>G</b> again to establish connection.</p>	 <p>The sensor's address illuminates on the keypad.</p> <p>EXAMPLE: address <b>1</b> (factory default)</p>	 <p>To address the desired parameter</p> <p>EXAMPLE: mounting height - F4</p> <p>Press <b>F</b> immediately followed by <b>4</b></p>	 <p>The sensor acknowledges it's current set value by illuminating it on the keypad.</p> <p>EXAMPLE: <b>4</b> = 13-16 ft (4- 4.9 m), factory default</p>	 <p>Now press desired new value.</p> <p>EXAMPLE: 10-13 ft (3.0-3.9 m) -3)</p> <p>Press <b>3</b></p>	 <p>The new setting is immediately saved and displayed on the keypad.</p> <p>Programming of this parameter is now complete. Repeat for other parameters.</p>
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Note: If any keys are blinking, programming failed. In this case, repeat programming.

## 4 Additional functions

### 4.1 LED indicator



LED	Green	Red
On Continuously	Idle	Safety curtain spot detected
Blinking	Low battery	Safety curtain spot detected AND <b>low battery</b>

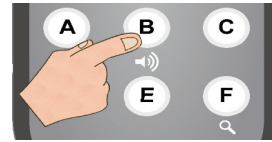
### 4.2 Beeper function

Remote must be turned on to access beeper function

**BEEPER ON:** Press and hold **(B)** for 2 seconds

**BEEPER OFF\*:** Press and hold **(B)** for 2 seconds

\*Beeper function turns off when remote turns off. This setting must be re-activated each time the remote is turned on.

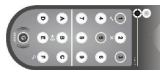


### 4.3 Sensor scan mode

Use sensor scan mode to determine available sensor addresses.



Press **(F)** for **2 seconds** to enter sensor scan mode.



All addresses assigned to sensors in proximity are illuminated on the keypad.

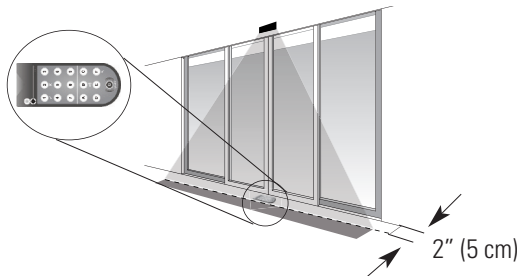


Select the corresponding address to establish communication with a specific sensor.



The active address is now illuminated on the keypad.

### 4.4 Safety curtain spot detector



Use the 2" width mark on the RC Duo 2 to determine e.g. when the infrared safety curtain is 2" from the face of a sliding door.

Status	Display	Beeper function (if turned on - see section 4.2)
No Safety curtain spot detected	Green	No beeping
Safety curtain spot detected	Red	Constant beeping

## 5 Safety instructions



Only use this remote for its intended purpose.

Do not point the IR beam towards your eyes or those of others!

Observe all national and international door safety regulations.

Only trained, qualified personnel may install sensors.

This unit may only be opened and repaired by Bircher Reglomat.

Always consider the safety functions of your application as a whole, never just in relation to one individual section of the system.

The installer is responsible for carrying out a risk assessment and installing sensors and door systems correctly.

## 6 Technical data

Technology: Active infrared, 40 kHz

Operating temperature: -20°C to 40°C

Max. air humidity: 90%, non-condensing

Batteries: 3 AAA (1.5 V) batteries

## 7 Declaration of conformity

Manufacturer:

Bircher Reglomat AG, Wiesengasse 20, CH-8222 Beringen, Switzerland, [www.bircher-reglomat.com](http://www.bircher-reglomat.com)

Importer:

Bircher America, Inc. 870 Pratt Ave N, Schaumburg, IL 60193, USA, [www.bircherreglomat.com](http://www.bircherreglomat.com)

Standards taken into account:

EN 61000-6-2, EN 61000-6-3

Important note:

Bircher Reglomat reserves the right to change any information in this document without notice.

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