



REMOTE CONTROL RHR-SCO2

Serie
HEAT RECOVERY FRESHOME RHR

Edition
03/21

Models
RHR 150
RHR 200

DAITSU RHR-S WIRELESS CO₂ PROBE



Country: EN



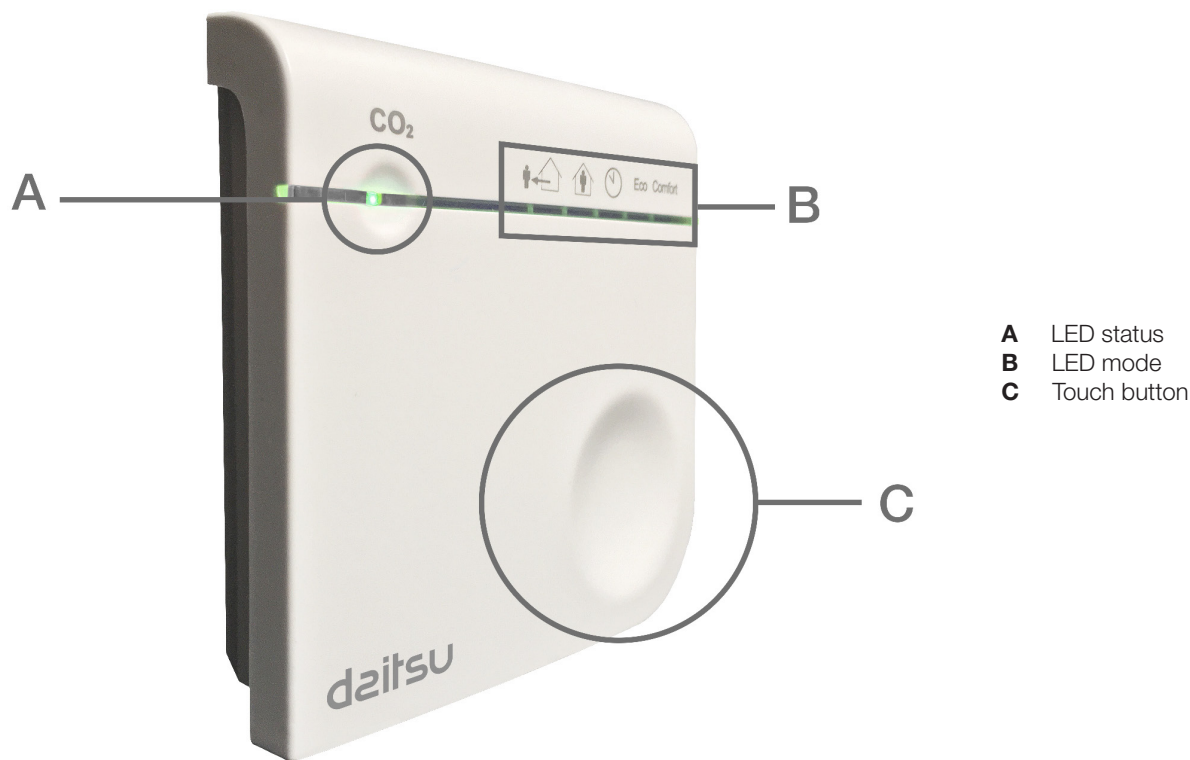
Children over the age of 8, people with reduced physical or mental abilities and those with little knowledge or experience may use this system provided they are supervised or have received instructions on how to use the system safely and are aware of the associated dangers. Children below the age of 3 must be kept away from the system, unless they are always supervised. Children between the ages of 3 and 8 can only turn the system on and off, but always under supervision or if they have received clear instructions on how to use the system safely and are aware of the potential dangers, and provided the system has been placed and installed in the normal position of use. Children between the ages of 3 and 8 must not insert the plug into the socket, clean the system, make changes to its configuration or carry out any of the maintenance tasks that the user normally performs. Children must not play with the system

If you need a new power cable, always request the spare part from Daitso to prevent dangerous situations from occurring. Only qualified experts can replace damaged mains connections.

Keep the manual in a safe place close to the unit.

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- A** LED status
- B** LED mode
- C** Touch button

1 ABOUT THIS MANUAL

1.1 ABOUT THE DEVICE

The **wireless CO₂ probe** is a user control and a CO₂ sensor for the ventilation system. The device communicates information on the ventilation speed request and the system status via wireless communications with the central control device.

1.2 HOW TO USE THIS MANUAL

This manual is designed as a reference book for qualified installers to be able to install the **wireless CO₂ probe** (hereinafter “device”) and for users to be able to use the device for its intended purpose. Make sure you have read and understood the manual before installing and/or using the device.

1.3 ORIGINAL INSTRUCTIONS

The original instructions for this manual were written in Spanish. Versions of this manual in other languages are a translation of the original instructions.

1.4 WARNINGS



NOTE

It is used to highlight additional information.



DANGER

It identifies a danger that could cause personal injury, including death.







2 SAFETY

2.1 DIRECTIVES

The device complies with the following EC directives:

- EMC Directive: 2004/108/EC
- Low Voltage Directive: 2006/95/EC
- RTTE Directive: 1999/5/EC
- RoHS Directive: 2002/95/EC
- WEEE Directive: 2002/96/EC

2.2 SIGNS ON THE UNIT

-  Warning: Check the instructions for use as a precaution.
-  Danger: Risk of electric shock.
-  IEC 61140 Protection Class II (double insulation).
-  CE mark compliance.
-  Use of the device may not be legal in all member states.
-  Dispose of in accordance with European Community Directive 2002/96/EC (WEEE).

2.3 GENERAL SAFETY INSTRUCTIONS

- This product was designed and manufactured to ensure maximum safety during installation, operation and service.
- Always read the safety instructions before installing, maintaining or repairing the product and strictly observe these instructions.
- Parts of the device carry mains power, which is a potentially lethal voltage.
- Disconnect the power supply to the supply line, circuit breaker or fuse before installing, repairing or removing the device.
- The device is designed for indoor use only. Do not expose the device to rain or moisture in order to prevent short circuits.
- A short circuit can cause fire or electric shock.
- Operate the device between 0°C and 40°C.
- Only use a soft, damp cloth to clean the unit.
- Never use abrasive or chemical products. Do not paint the device.

3 DESCRIPTION

3.1 INTENDED USE

The device is designed for the following purposes:

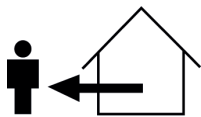
1. To set the ventilation level via the fan speed, according to the user input or the measured level of CO₂.
2. Configure the parameters for controlling the ventilation. Any other use or additional use is not in compliance with the intended use.

3.2 OPERATING PRINCIPLE

The device communicates with the control device via wireless communications for controlling the ventilation. Via the button and the LEDs, you can read and configure the control mode that the ventilation system is currently in. When it is in Eco mode or Comfort mode, the device requests the ventilation level according to the amount of CO₂ in the air.

3.2.1 VENTILATION SPEEDS AND MODES.

The ventilation system operates in one of the following modes. In each of these modes, the control device adjusts the ventilation system to a configured ventilation level.



ABSENCE MODE:

It represents periods of **non-occupancy**, when the heat recovery unit will operate at the lowest capacity.



AT HOME MODE:

It represents **occupancy of the home or a room**. By selecting this button, the heat recovery system knows that there is one person (or more) in the room or home. It will set the speed to the default level.



MAXIMUM TIMER:

High fan speed, for a limited time. When the button is pressed, the heat recovery unit will reach maximum speed for 30 minutes.

Eco

ECO MODE:

Sensor-based automatic ventilation. In ECO, the system will begin at a higher CO₂ level to ventilate like in **COMFORT mode**.

Comfort

COMFORT MODE:

Sensor-based automatic ventilation. The system will accelerate the CO₂-based ventilation after a certain default activation value is exceeded.

The control device drives the fan according to the highest values sent by the linked wireless sensors. When you start the timer mode from this device, the ventilation will be active for 30 minutes.

3.2.2 CO₂ SETPOINT

The device measures the level of CO₂ in the air continuously and compares the measured value to a configured setpoint. The device controls the ventilation accordingly to keep the measured level of CO₂ below the requested level. When it is in Comfort mode, the requested level is the same as the configured value. In Eco mode, the requested level is 250 ppm above the configured value.



NOTE

The device stores the fan speed values configured on the control device and requests them from there. The device stores the CO₂ setpoint itself and does not communicate it to any other device.

3.3 VISUAL SIGNALS

		LED STATUS	LED MODES				
						Eco	Comfort
Start-up							
		STEADY WHITE	ON	ON	ON	ON	ON
System status							
STEADY GREEN		<800 PPM					
STEADY YELLOW		800-1900 ppm					
STEADY	RED	>1900 ppm					
	1 flash	Communication error					
	2 flashes	Dirty filter					
	3 flashes	Fan error					
	4 flashes	CO ₂ sensor error					
	5 flashes	Low battery					
Selection							
ABSENCE MODE		OFF	•				
AT HOME MODE				•			
MAXIMUM TIMER					•		
ECO MODE						•	
COMFORT MODE							•

4 OPERATION

4.1 SHOW STATUS

1. Tap the button.
The LED status and the LED modes show the system status.

4.2 SETTING MODE

From the status screen:

1. Tap the button. The mode LEDs show the following selection.
2. If necessary, tap the button within 2 seconds, repeat until the selection shows the required mode.
3. Wait 2 seconds. The device applies the requested mode.

The LED status and the LED modes show the system status.

5 INSTALLATION

5.1 PREPARATION



DANGER

Disconnect the power supply to the supply line, circuit breaker or fuse before installing the device.

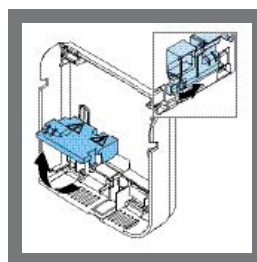


NOTE

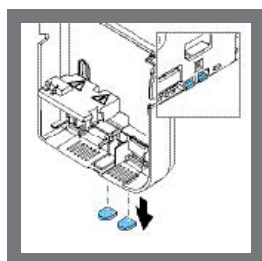
Do not place the device in a metal housing.



1. Press the clip and pull the upper section of the lower section.



2. Open the safety cover. Use a small flat-head screwdriver to loosen the clip.



When the device is not placed in a recessed wall box:

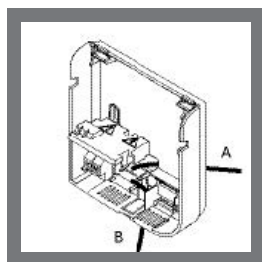
1. Prepare the wall, if necessary. Use the mounting plate as a template.
2. Remove the detachable plastic from the cable entry on the housing.

5.2 INSTALLATION PROCEDURE

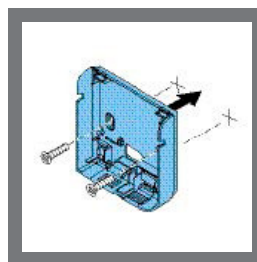


DANGER

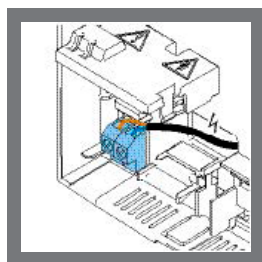
Make sure that the power supply is turned off.



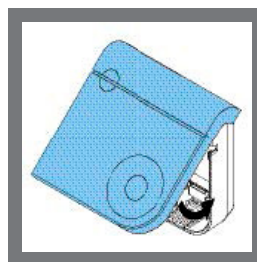
1. Pass the power cable through the rear hole (A) or the cable entry (B).



2. Position the lower section of the device.
3. Secure the lower section with the bolts.



4. Connect the power cable to the bolt terminals.



5. Position the upper section of the device on the lower section.
 - a. Position the clips.
 - b. Close and press until it clicks.

5.3 START-UP

1. Enable the 230 V power supply.
All of the LEDs will light up for 3 seconds.

2. Wait until the status LED displays link mode.
If the device shows another indication, the device is already linked. See 6.2 on how to link the device again.

3. Make sure that the fan box is in link mode.

4. Tap the button. The device tries to link to the control device.

It displays the result in the LED status.

When the communication fails, make sure that the control device is in link mode and try again.

6 CONFIGURATION

		LED STATUS	LED MODES				
						Eco	Comfort
Configuration							
LOW SPEED		OFF	•				
MEDIUM SPEED				•			
HIGH SPEED					•		
CO ₂ SETPOINT						•	
LINKING							•
VALUE	Blue/red	Low speed	Off	10%	20%	30%	40%
	Blue/green	Medium speed	30%	40%	50%	60%	70%
	Red/green/blue	High speed	60%	70%	80%	90%	100%
	Blue (flashing)	CO ₂ setpoint	700 ppm	800 ppm	900 ppm	1000 ppm	1100 ppm
	Red/green	Linking					

6.1 CONFIGURING SETTINGS

From the status screen (see 4.1):

1. Tap the button. The mode LEDs show the following selection.
2. If necessary, tap the button within 2 seconds, until the selection shows the element to be configured.
3. Keep the button pressed until the status LED starts flashing white.
4. Release the button. The status LED shows the selected element, and the LED flashing modes show its current value.
5. If necessary, tap the button within 10 seconds, until the mode LEDs show the value to be set.



NOTE

When configuring the fan speeds, make sure that the average fan speed is between the low fan speed and the high fan speed.

6. Wait 10 seconds and the device will apply the configured value. The LED status and the LED modes show the system status.

7 TECHNICAL DATA

DAITSU WIRELESS CO ₂ PROBE			
TOTAL DIMENSIONS		100 x 100 x 25 mm (height x width x depth)	
WEIGHT		± 125g	
ENVIRONMENTAL CONDITIONS	Temperature	Operating	0 to 40°C
		Transport and storage	-20 to 55°
	Relative humidity		0 - 90%, without condensation
	Electrical protection (IEC60529)		IP30
ELECTRICAL SPECIFICATIONS	Main power supply		195 - 253 VAC, 50 Hz.
	Maximum energy consumption		4 VA
	Cable diameter		0.25 to 2.5 mm ²
CO₂ MEASUREMENT SPECIFICATIONS	Optimal measuring range		Measurement accuracy (within the optimal range, >10 min after start-up): 400 to 2000 PPM.
	Stabilization period after start-up		40 PPM + 2% of reading at 20°C 2 minutes

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