



Wireless Temperature, Relative Humidity, CO2 Sensors

Overview

Expand the CERV’s control and monitoring capabilities throughout your home with remote wireless sensors. Sensors come in two configurations – Temperature & Relative Humidity, and Temperature, Relative Humidity, & CO2. The sensors can be placed on a desk/countertop, or easily be mounted to the wall with double-sided tape or screws.

Bathroom Humidity Control

Remote sensors can be a great option for bathrooms with the “Bathroom Humidity Control” feature. When a spike in humidity is seen because of a shower, the CERV can automatically ventilate (similar to the functionality of the wireless switch option). Configure ventilation length, airflow, and link to zone dampers for additional spot ventilation capabilities.

Indoor Air Quality Control

Remote sensors containing CO2 capabilities can be used to trigger the CERV to ventilate when elevated CO2 levels are detected. Sensors may have unique setpoints for ventilation, or simply be linked to the CERV’s CO2 setpoint. Configure ventilation airflow and link to zone dampers for additional spot ventilation capabilities.

Specifications

	T & RH	T, RH, & CO2
Power Supply	Solar Cell	Solar Cell
Backup Battery Size	CR1225	CR2032
Operational Light Level	50 lux	50 lux

Note: it is highly recommended to use the backup battery to ensure operation overnight or in low-light conditions.

Temperature	-4 to 140F ±0.9F	32 to 124F ±0.9F
RH	0 – 100% ±0.3%	0 – 100% ±0.3%
CO2	N/A	0 to 2000ppm ±50ppm

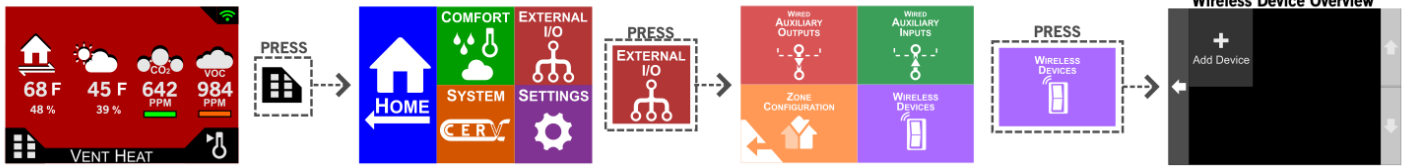
Radio Frequency	902MHz	902Mhz
Transmission Range	100 - 1000ft (30-300m)	80 – 330ft (24-100m)

Dimensions	3.0 x 0.87 x 0.59” (76.2 x 22 x 15mm)	5.3 x 2.8 x 0.9” (135 x 72 x 24mm)
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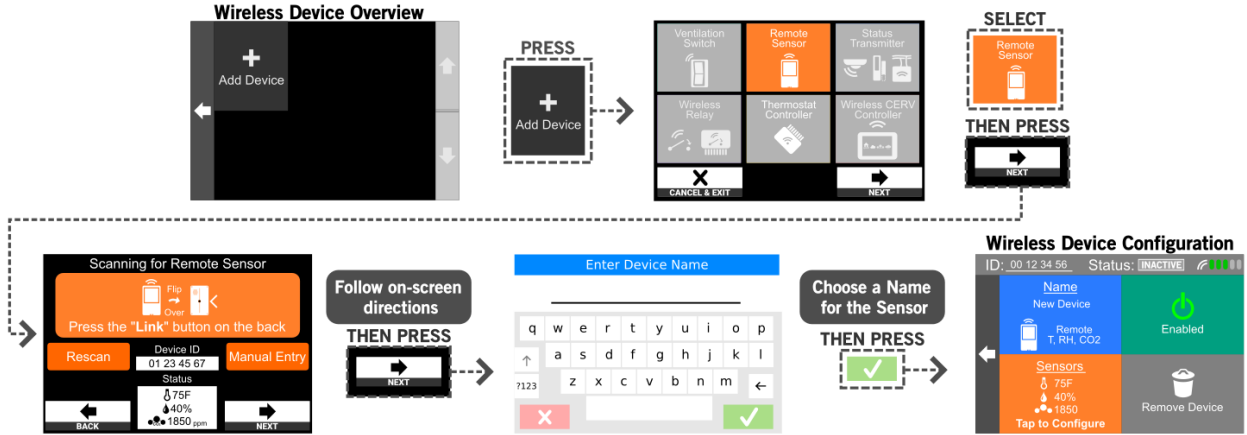
Agency Listing and Compliance
FCC Part 15.231 - Remote Control Transmitter IC RSS-210



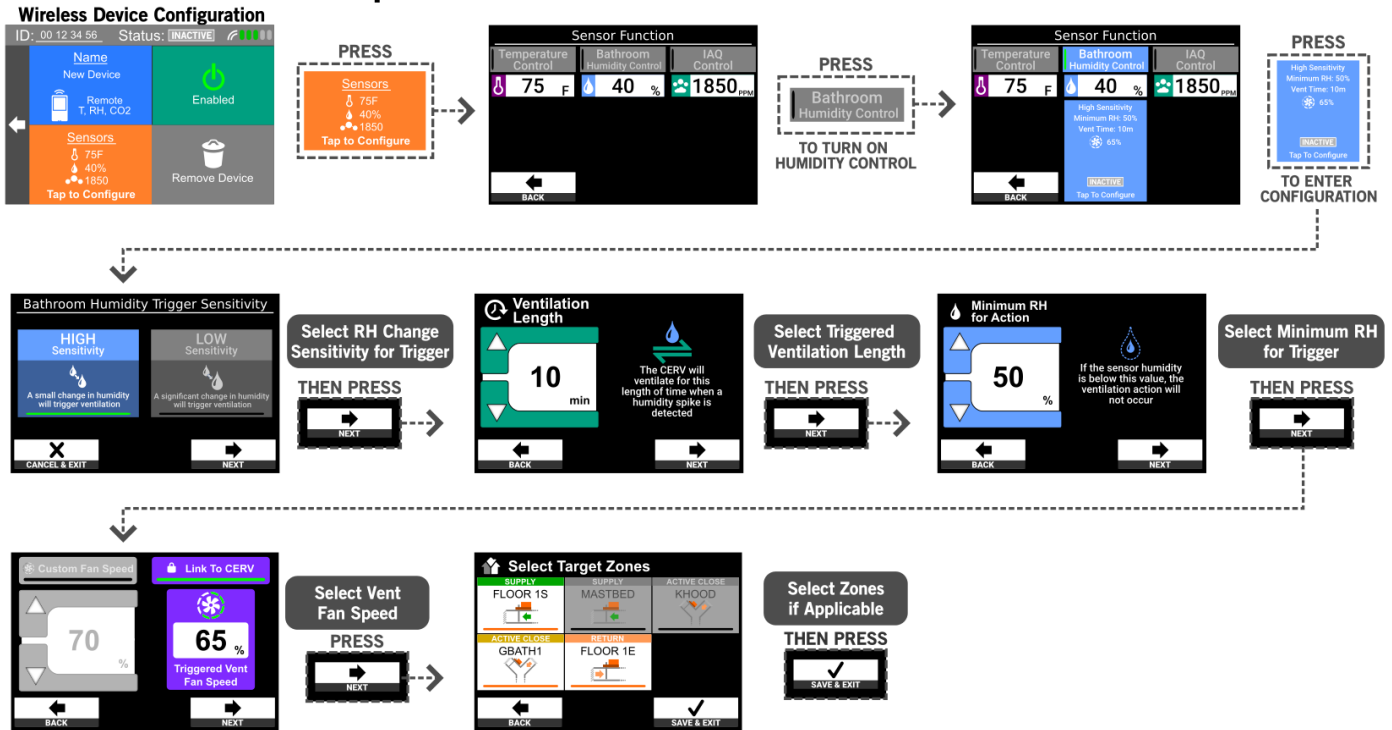
Wireless Device Setup



Adding a New Wireless Sensor



Example: Ventilate when Bathroom Moisture Detected



Trigger Sensitivity

High Sensitivity: A small change in humidity will trigger ventilation. *Recommended for medium-to-large rooms*

Low Sensitivity: A significant change in humidity will trigger ventilation. *Recommended for small rooms*

Ventilation Length

The CERV will ventilate for the selected length of time when a humidity spike is detected.

Note that this is the time length of ventilation once the spike starts, NOT the amount of time after the shower ends. Take into account the typical length of showers when choosing this value.

Minimum RH for Action

If the sensor humidity is below this value, the ventilation action will not occur.

In winter months or dry climates, sometimes ventilation may not be needed when an increase in relative humidity is seen. This value may be used if you wish to allow the moisture to stay in the home as long as the humidity stays below a certain level.

Fan Speed Selection

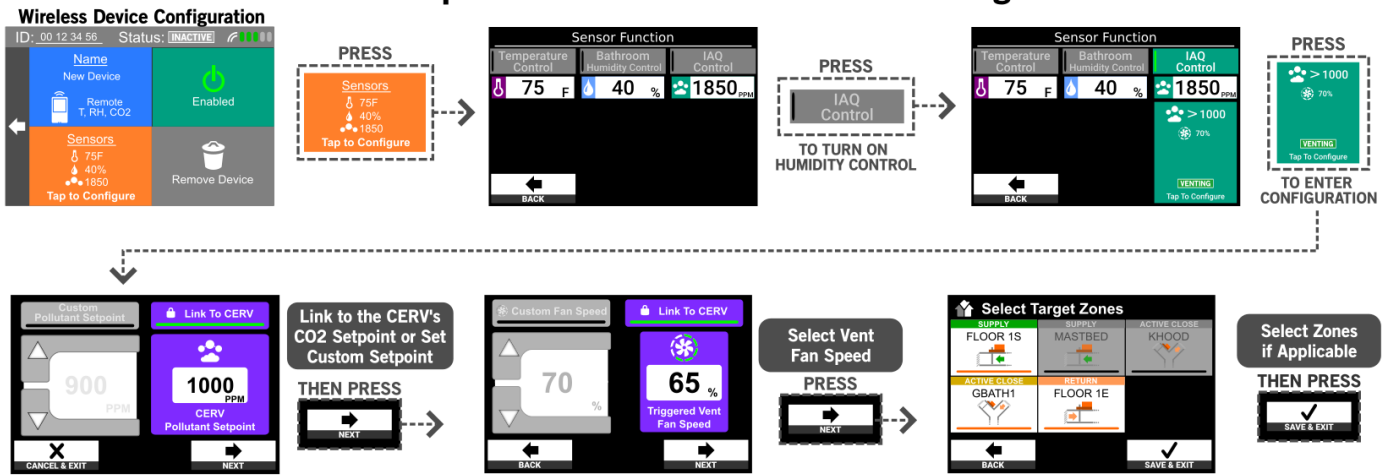
Custom Fan Speed: select a fan speed percentage for this particular device that is unique. Changes to other CERV settings will not change this value.

Link to CERV (*typically recommended*): use the CERV's "Triggered Ventilation Fan Speed" setting (main menu → system → ECM Fan Settings).

Target Zone Selection

If your CERV installation has zone dampers, you may wish to link the triggered ventilation to a zone associated with this bathroom. If no zones exist, skip this screen.

Example: Ventilate when Sensor CO2 is High



CO2 Setpoint

Custom Pollutant Setpoint: select a setpoint for this particular device that is unique. Changes to the CERV's pollutant setpoint will not change this value. *Example for use: CERV's CO2 setpoint is 1000ppm, but you would like lower CO2 in your bedroom while you sleep. You could set the Custom Pollutant Setpoint to 800ppm for this sensor in your bedroom.*

Link to CERV (*typically recommended*): uses the CERV's CO2 setpoint along with the measured CO2 from this sensor to determine ventilation. If either the CERV's CO2 measurement, or this sensor's CO2 measurement are above the CERV's CO2 setpoint, the CERV will ventilate.

Fan Speed Selection

Custom Fan Speed: select a fan speed percentage for this particular device that is unique. Changes to other CERV settings will not change this value.

Link to CERV (*typically recommended*): use the CERV's "Triggered Ventilation Fan Speed" setting (main menu → system → ECM Fan Settings).

Target Zone Selection

If your CERV installation has zone dampers, you may wish to link the triggered ventilation to a zone associated with this bathroom. If no zones exist, skip this screen.