



E9X-CUV Active Circuit Transmitter

Overview

The Active Circuit Transmitter (ACT) option allows a remote circuit to influence the function of the CERV, much like the hardwired Auxiliary Input(s). The ACT can be installed along with a load, such as a light switch or kitchen vent hood, or even used with a separate system such as a fan interlock or system shutoff. Once the ACT is installed, powered, and paired with the CERV, its functionality can be programmed.

When the circuit is “active”, the ACT will periodically send a signal to the CERV indicating that the circuit is on. In most cases, this will cause the CERV to suspend its current activity based on internal sensors, and instead enter the mode specified by the device’s configuration. After installation, ensure that the ACT is unpowered (as evident by LEDs) when the load is off.

Recommended Installation: to minimize signal interference, the ACT should be installed exterior to metallic junction boxes, using the threaded connector and locknut.



Any electrical work should be performed by a qualified installer or electrician. Follow all electrical codes applicable in the location of installation.

Specifications

Power Supply	120-277 VAC
Power Consumption	0.5 W

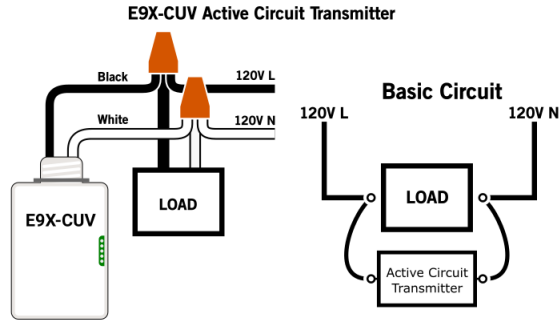
Radio Frequency	902MHz
Transmission Range	50-150 ft

Weight	56.7g (2oz)
Dimensions	2.61” H x 1.60” W x 1.09” D (54mm x 44mm x 28mm)

Agency Listing and Compliance	
UL 60730 (safety)	
UL 2043 (plenum)	
CSA c22.2#14.05 (safety)	
FCC: SZV-STM300U (902 MHz)	
IC: 5713A-STM300U (902 MHz)	

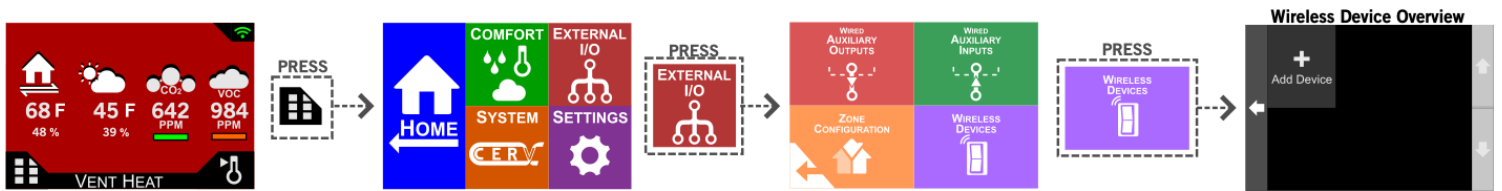


Electrical Wiring

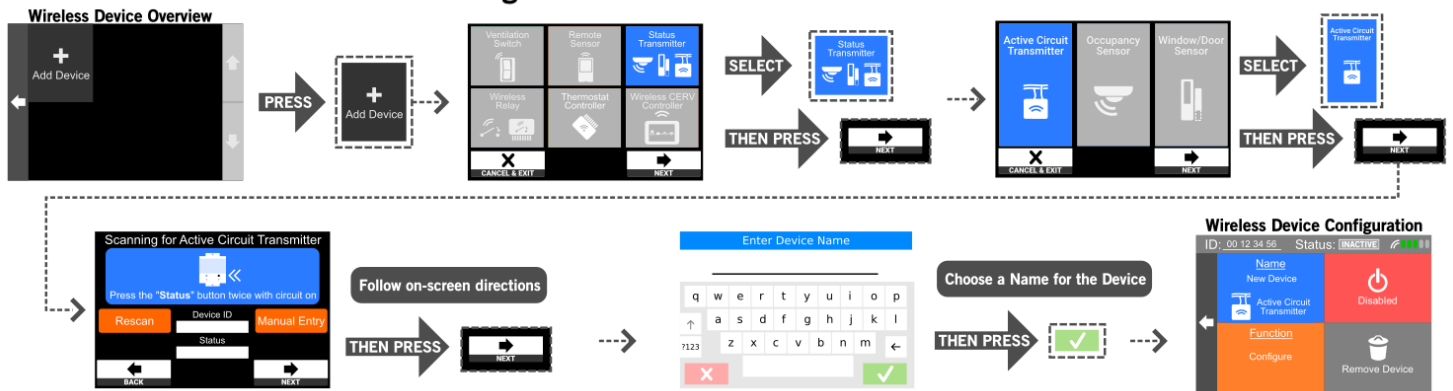


CERV2 Setup

Wireless Device Setup



Adding A New Active Circuit Transmitter



Available Active Circuit Transmitter Functions



Example: Configure Active Circuit Transmitter to Ventilate



Active Circuit Transmitter with Current Sensing Relay

In some cases, directly wiring Build Equinox's Active Circuit Transmitter wireless option to a vent hood, dryer, or electric load is not possible or desired. For this scenario, a Current Sensing Relay may be used in combination with the Active Circuit Transmitter, allowing the Active Circuit Transmitter to trigger the CERV to ventilate when the monitored appliance reaches a current threshold (set on the current sensing relay). An example Current Sensing Relay is specified below, but any comparable one may be used. Build Equinox does not sell this component.

Parts specified: Current Sensing Relay: Hilitand SZC23 No AL-CH Model – [Product Link](#)

If line voltage from the appliance is accessible, it may be used to provide power to the Active Circuit Transmitter (switched through the Current Sensing Relay)

