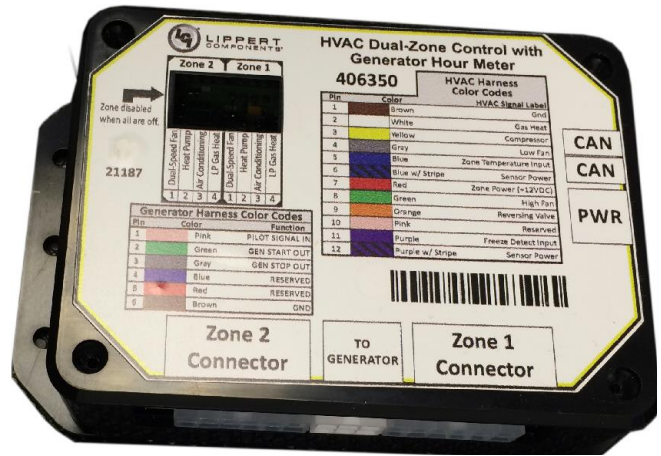


# HVAC Control with Generator Hour Meter

## Description

Electronic control module that controls the operation of Heating, Ventilation, and Air Conditioning (HVAC) systems. Available in 1 Zone or 2 Zone configurations. In conjunction with the OneControl™ mobile application (App), myRV® tablet, or OneControl™ Touch Panel (OCTP), the HVAC control module provides all of the same functions as a standard wall-mounted thermostat. The user interface is provided through the mobile App or OCTP application, while the physical/electrical functions are provided by the HVAC Control Module.

The module interconnects are identical to standard thermostat wiring, making this product an ideal drop-in replacement for customers who wish to upgrade their system to a modern App driven touchscreen interface. In addition to thermostat wiring, an external temperature sensor is also required, allowing the HVAC Control Module to be installed in an equipment bay or other out of the way location. The temperature sensor must be installed in a suitable location in the living area whose temperature is to be controlled.

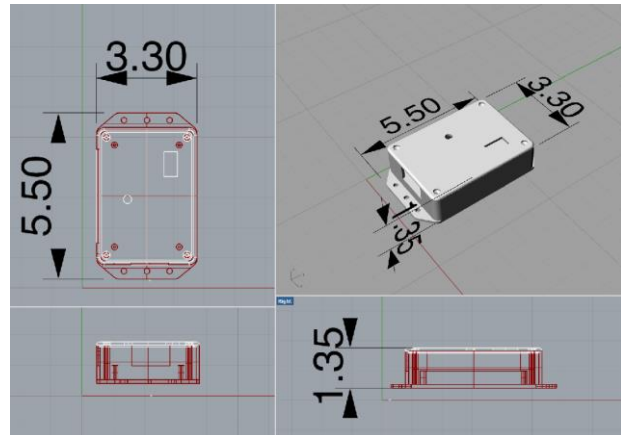


Plug-and-play compatibility with LCI myRV® CAN systems means that you can remotely control the system from a wide variety of LCI products. The climate zone name can be customized at the factory to show the zone

being accessed.



Installation in Wi-Fi capable myRV® systems grants customers wirelessly control the product using their Android or iPhone mobile device. Simply go to the app store and downloading the LCI OneControl™ mobile app.



## Applies to

Part Number		Description
IDS	LCI	
21188	425924	LCI HVAC Single-Zone Control with Generator Hour Meter
21187	406350	LCI HVAC Dual-Zone Control with Generator Hour Meter

## Absolute Maximum Ratings

Rating	Value	Unit	Conditions
Input Supply Voltage	18	VDC	Indefinite
Output Current (Relay Closure Outputs)	1.2	A	Indefinite
Output Current (Generator Start/Stop Outputs)	1.2	A	Indefinite

# HVAC Control with Generator Hour Meter

## Electrical Characteristics

Rating	Symbol	Min	Typ	Max	Unit	Conditions
Operating Supply Voltage	V <sub>BATT</sub>	9	13.8	16	VDC	
Output Load Current – HVAC	I <sub>HVAC</sub>		1.0		A	Relay power is provided by Furnace or HVAC, but is limited by onboard self-resetting fuse
Output Sink Current – Generator	I <sub>GEN</sub>		2.0		A	Active Low (sinking) outputs

## Mechanical Characteristics

Dimensions	Max	Unit	Conditions
Overall Height	1.35	Inches	± 0.010"
Overall Width	3.30	Inches	± 0.010"
Overall Length	5.50	Inches	± 0.010"
Mounting Hole Diameter (clearance for #8 screw)	0.190	Inches	+0.015" -0.005"

## Compatibility

Relay contacts are configured to switch V<sub>batt</sub> (12 V) to a factory-installed Furnace, Air Conditioner, Fan, or other climate control system. The HVAC module emulates the classic multi-wire analog thermostats that have been prevalent for decades. The system connections are therefore traditional (“analog”) in nature. The HVAC Control Module does not support communication over any of the various proprietary digital control bus links on the market today.

At this time, we have tested with Coleman Mach brand AC and Heat pump units, although the system will work with other compatible HVAC systems.

## Configuration

The HVAC Control Module can be used with any combination of the following:

- A gas-fired furnace
- A single-stage electric AC unit
- A single-stage electric AC unit with Heat Pump capability
- Dual-speed fan configurations on AC and Heat Pump units

Using the on-board dip-switches, the HVAC Control Module must be configured to match the installed HVAC hardware. The picture to the right shows a typical configuration for a dual-zone HVAC control module.



A switch in the up (on) position indicates that the features is enabled for the corresponding zone. When all switches are in the down (off) position, the zone will not appear in the OneControl™ application.

Note: Heat pump units must have a single wire “heat demand” signaling configuration. The HVAC Control Module does NOT support independent contacts for Heat Pump Reversing Valve, but rather drives a single lead for the Heat Pump demand, just as it does for the Gas Furnace demand. Coleman Mach units implement this scheme in their “Analog Control Box” setups. Please be sure that your specific model does so as well.

## Generator Start/Stop and Running Hours Meter

This module also provides generator start/stop control for Cummins Onan generators. When wired into the “running signal” of the generator, the unit also tracks the total running hours of the generator, and can be programmed to display an alert when the generator is due for scheduled maintenance.

## User Interface

All user control and input is accomplished using either the OneControl™ mobile application (App), myRV® tablet, or OneControl™ Touch Panel (OCTP).