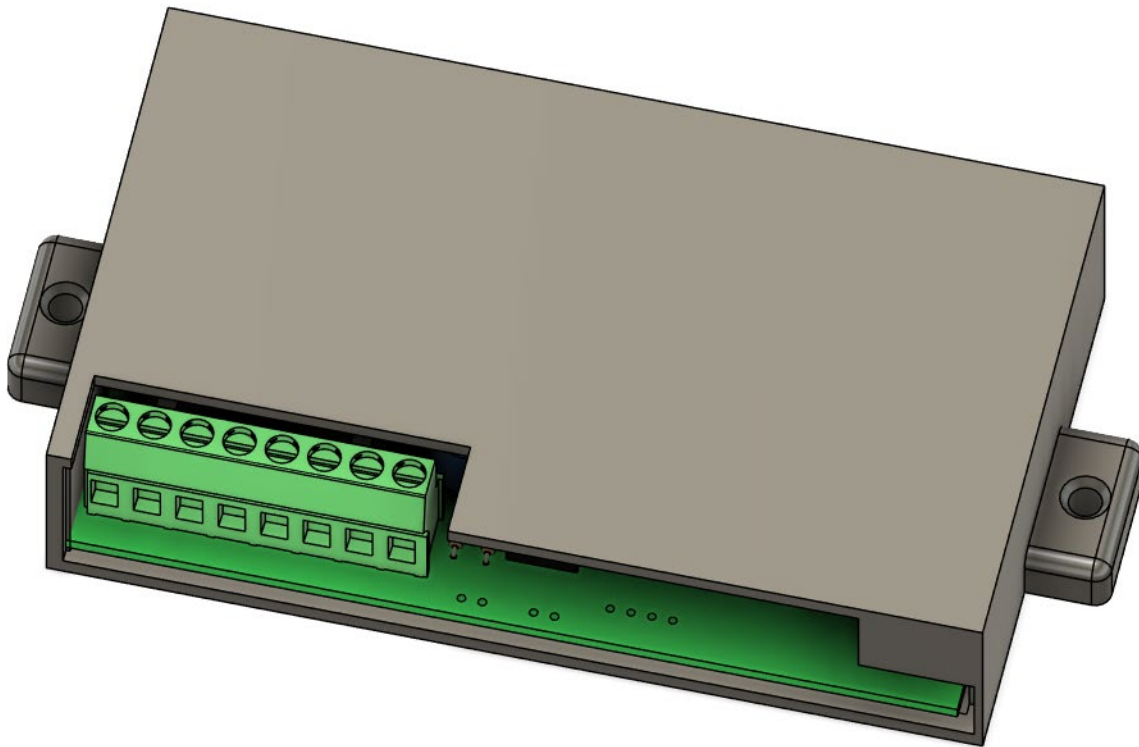


## MODSTAT Specifications & Installation and Operation Manual

PLEASE REVIEW ENTIRE MANUAL BEFORE TRYING TO CONNECT THE  
MODSTAT TO ANY THERMOSTAT

Note: if you have more than one fan coil unit, the units must be programmed before leaving the factory, please make sure to let your sales person know you are planning on hooking these up with a MODSTAT.



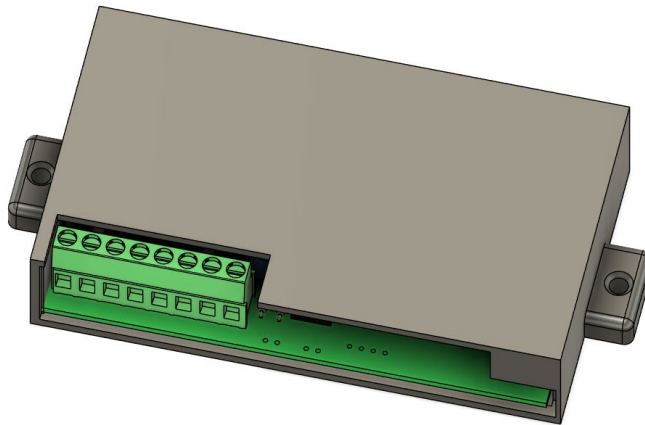
## MODSTAT Specifications & Installation and Operation Manual

The MODSTAT is a simple device that connects to a standard single stage heat pump thermostat. It is not a thermostat. It translates the standard thermostat outputs into Modbus, for controlling all of the connected fan coil units in parallel.

The MODSTAT can control a single fan coil unit, or up to 150 fan coil units that are all in the same control zone and managed by a single user provided standard single stage heat pump thermostat

There are currently two versions of MODSTAT, one is for HW/Cassettes and one is for CXI units. We will release a model that does both types and update this documents when it is ready. For now, we need to know what type of fan coil units will be connected, see following page.

Whatever 24 VAC power supply that you are using for the thermostat must also be available for powering the MODSTAT.



## MODSTAT Specifications & Installation and Operation Manual

All connected fan coil units will:

1. Select their mode (heating or cooling) based on the thermostat selection output.
2. When there is a “call” the fan coil unit fan will start. Any outputs associated with the fan coil fan control signals for a valve or pump will operate as normal, i.e., will activate when fan is called.
3. When the fan runs it will run at high speed for the duration of the thermostat call.
4. Allowed temperature setting range: Cooling as low as 45F, heating as high as 95F.

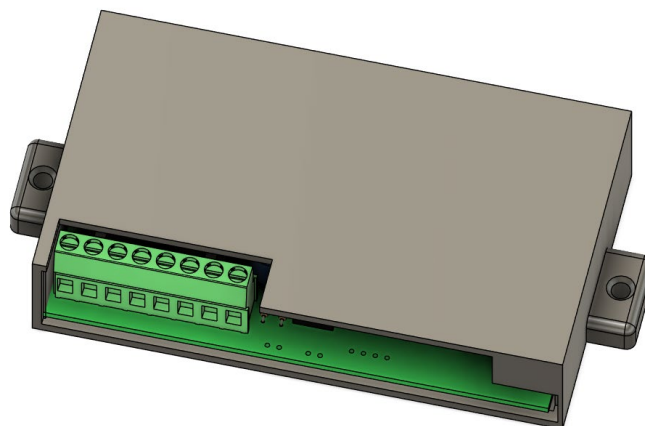
### NOTICE

**Before Ordering Modstat: Tell us if you will be using it for CXI, HW, or CC model fan coils.**

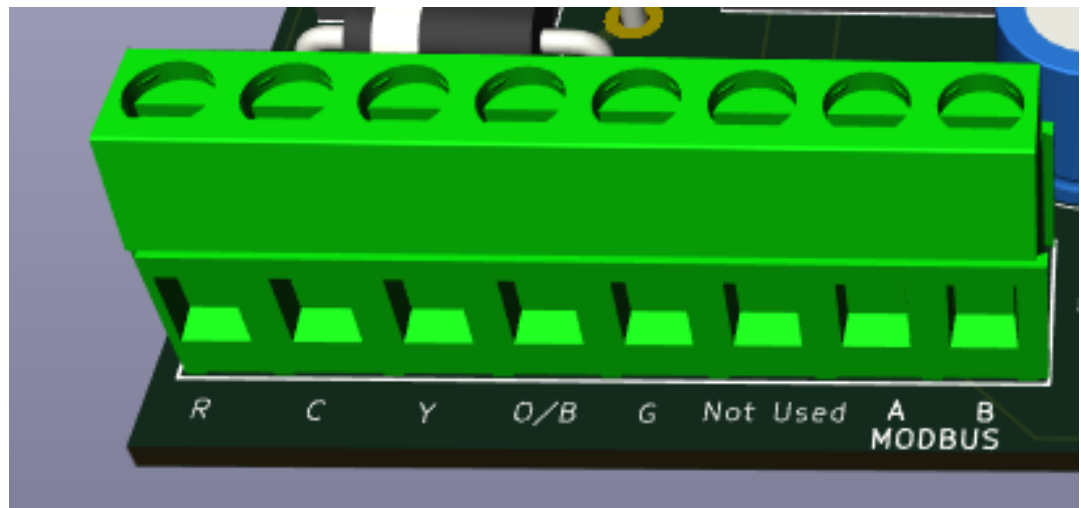
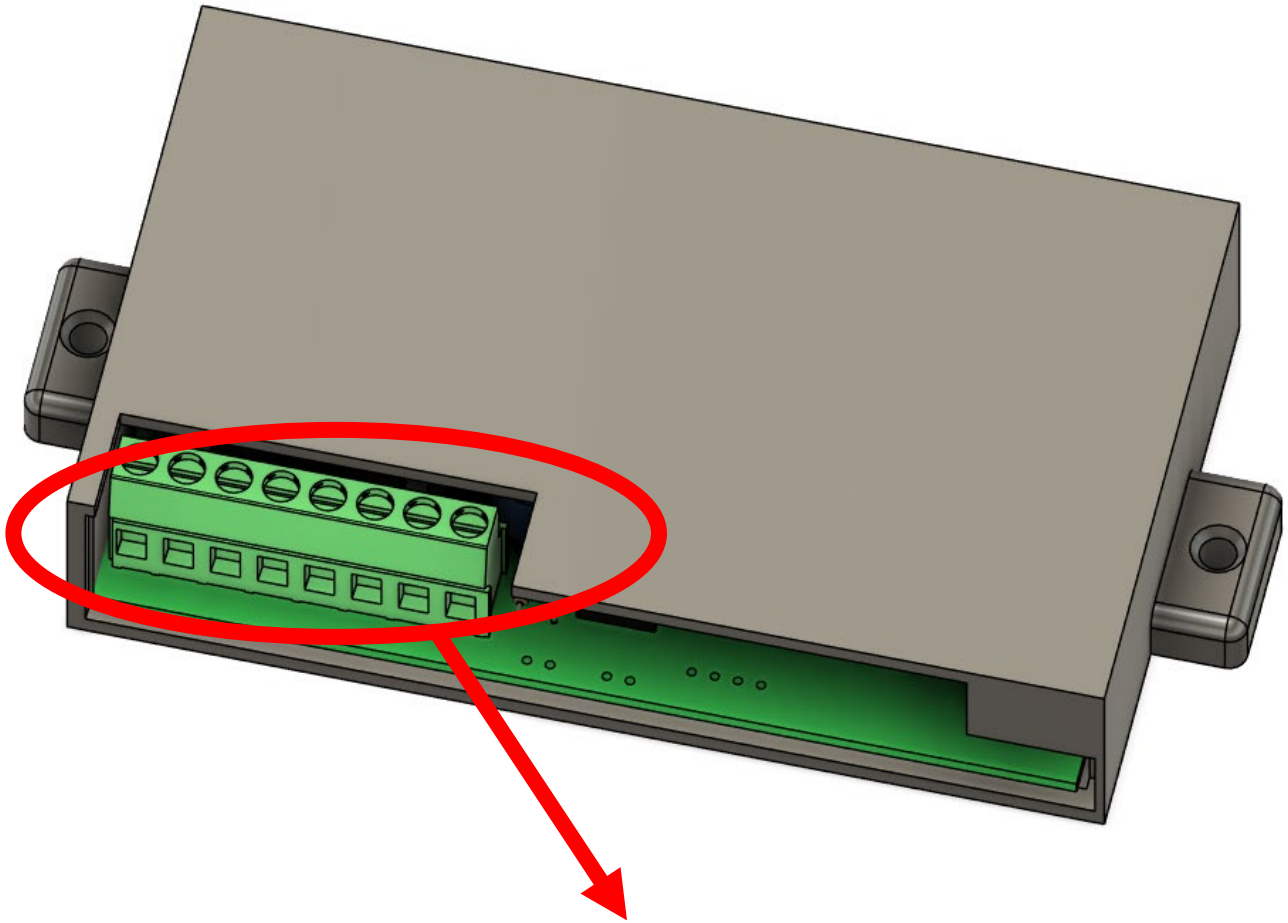
**You must tell us before shipping any fan coil units that you will be using the MODSTAT so we can program the fan coil units before they are shipped out.**

**And let us know what thermostats you will be using (brand/model etc.)**

**Make sure you have a 24 VAC power supply, for your thermostat, usually we will pick up this power from the thermostat.**



# Connection points



## Hardware Requirements

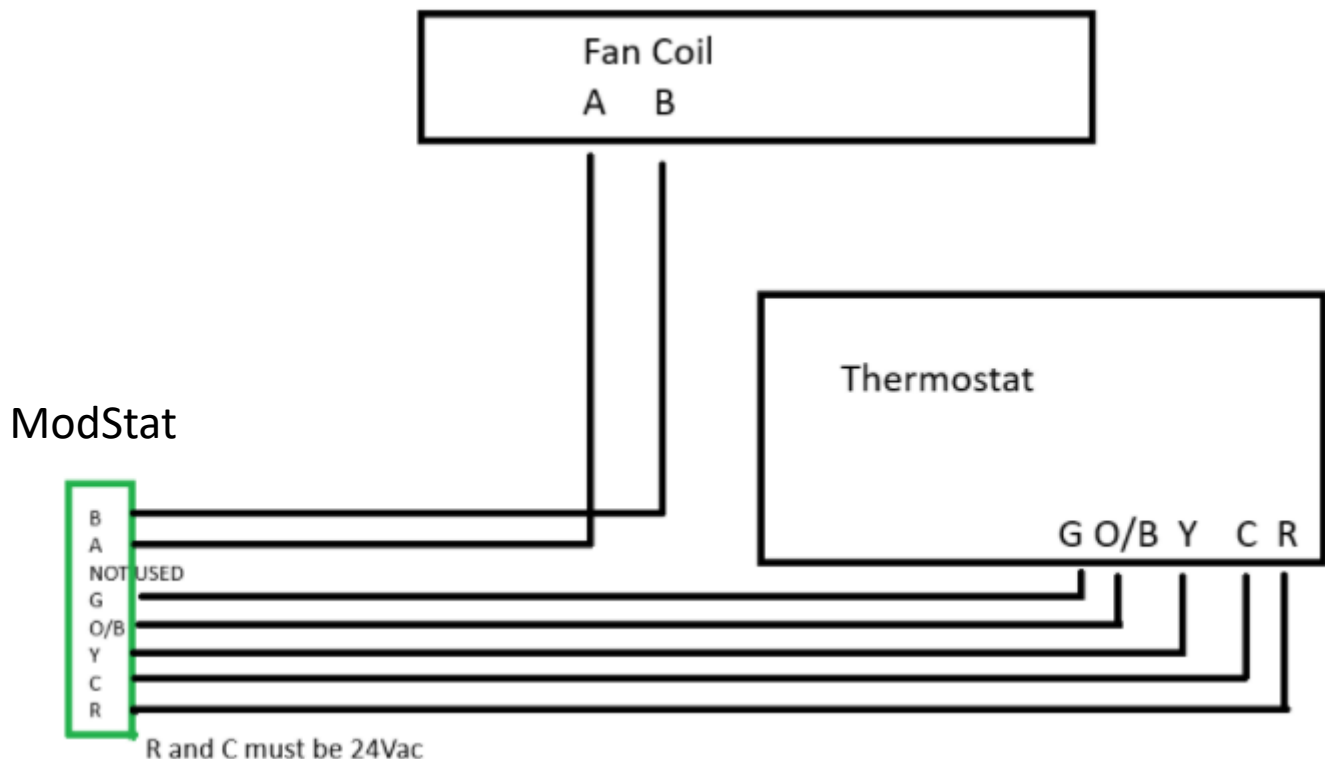
Before installing the ModStat you must install a 24Vac transformer that is always powered. The ModStat draws its power from this.

Amp draw at full power is less than 0.125mA but it is recommended to have a 1amp 24Vac transformer for other future add Ons such as relays to control other systems.

## Wiring Diagram

When installing the ModStat, it can be mounted anywhere a thermostat can be mounted or mounted in the wall behind the thermostat.

R and C must have 24Vac at all times. Verify with a multi meter before connecting to the ModStat. If you are using multiple fan coils with one ModStat, please refer to the next page.



# Multiple Unit Wiring Diagram

When installing the modstat using multiple fan coils, A must be connected to A using the daisy chain method. And B must be connected to B using the daisy chain method.

