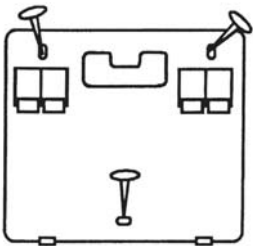


## Z-1600-T Thermostat Installation and Operating Instructions



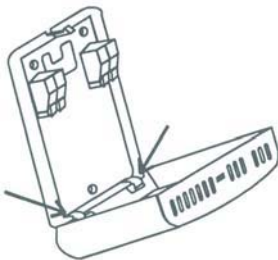
**IMPORTANT:** It is very easy to open and handle after assembly on wall.

Separate the front panel from back panel by simply pulling the two pieces apart top first.



Line the back panel up against the wall or flat surface onto which it is to be mounted and drill in the appropriate screw holes. Make electrical connections as shown on the enclosed electrical wiring diagram.

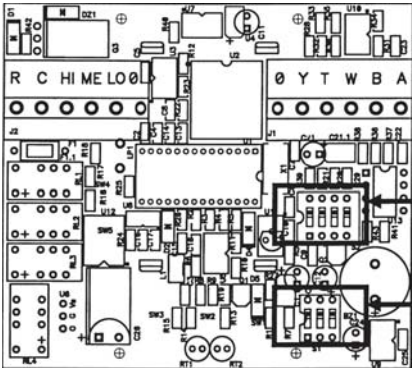
Reinstall the front panel starting with the bottom first.



### Wiring Connections

Terminals On Unit	Marked On Z1600T
R-24 Vac input	4
C-24 Vac input	5
Y-cool-24 Vac output	8
W-heat-24 Vac output	3
Open-for damper-24 Vac	1
Close-for damper-24 Vac	2
Td-duct temperature sensor to determine MODE	6
T0-second wire of the sensor "T" or "Td"	7

## Dip Switches Location



The dip switches are situated according to this drawing. (back of thermostat)

Dip Switch S2, 4 Switches

Dip Switch S1, 3 Switches

### N.T.C. Sensor; Temperature~Resistance Characteristics

Temp °C	7.2	10.0	12.8	15.6	18.3	21.1	23.9	26.7	29.4	32.2
Temp °F	45	50	55	60	65	70	75	80	85	90
Res. k	115.8	100.9	88.1	77.1	67.7	59.6	52.5	46.4	41.2	36.6

## On/Off Manual

Press the on button to activate the thermostat; ON should appear on the display. Press the off button to deactivate the thermostat; OFF should appear on the display.

## Configuration

To set the temperature limits, set the set point as low as it will go. Press and hold the C/F button (3 seconds) until the stat beeps and the word "cool" flashes. Use the (+) or (-) button to adjust the cooling limit. Press the C/F button again, the stat beeps and the word "heat" will flash. Use the (+) or (-) button to adjust the heating limit. Press the C/F button again and the word "Aux" will flash. This is to adjust the calibration of the thermostat. Press the C/F button again to return to normal operation.

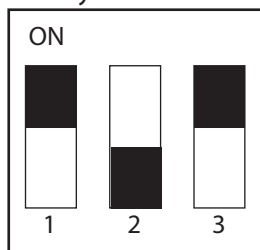
## Duct Sensor

The purpose of the duct sensor is to select which mode the thermostat will operate (the thermostat is auto change over all the time). This sensor is to be installed in the duct to sense the discharge air of the unit. The logic is: When the temperature is below 72°F, the mode in the thermostat is cool; when the temperature is greater than 72°F, the mode in the thermostat is heat.

**IMPORTANT:** Must use the external sensor that is factory-mounted in the damper.

### Dip Switch S1

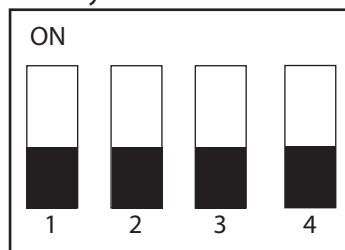
Factory default for duct sensor.



Switch 1 - ON  
Switch 2 - OFF  
Switch 3 - ON

### Dip Switch S2

Factory default for 90 second actuator.



Switch 1 - OFF  
Switch 2 - OFF  
Switch 3 - OFF  
Switch 4 - OFF