## Installation Instructions





## Model \$1-THEU21P7\$

## TERMINAL CONNECTIONS TO STANDARD OF THE PROPERTY OF THE PROPE



Turn off the power to the Heating/Air Conditioning system at the main fuse panel. Most residential systems have a separate breaker for disconnecting power to the furnace.



Remove the cover of the old thermostat and loosen the screws holding the thermostat base or subbase to the wall to lift away.

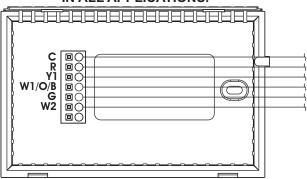


Disconnect the wires from the old thermostat. Tape the ends of the wires as you disconnect them, and mark them with the letter of the terminal for easy reconnection to the new thermostat.

Wire from the old thermostat terminal marked	Function	Install on the new thermostat connector marked
W1, W or H	Gas Furnace	W1/O/B
Y1 or Y	Electric Cool	Y1
В	Rev. Valve (Energize to Heat)	W1/O/B
0	Rev. Valve	W1/O/B
W2	Aux. Heat	W2
G or F	Fan	G
Rh, R, M, Vr, A	Power	R
С	Common	С

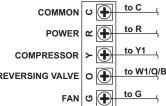
### SAMPLE WIRING DIAGRAMS

### A COMMON WIRE MUST BE CONNECTED IN ALL APPLICATIONS.



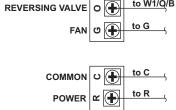
5 Wire, 1 Stage Heat Pump O reversing valve. Residential Heat Pumps, split systems

& package units, with no auxiliary heat.



5 Wire, 1 Stage Heat Pump B reversing valve.

Residential Heat Pumps, split systems & package units, with no auxiliary heat.





6 Wire, 1 Stage Cool & POWER 2 Stage Heat-Heat Pump COMPRESSOR >

Residential Heat Pumps, split systems & package units, with auxiliary heat.

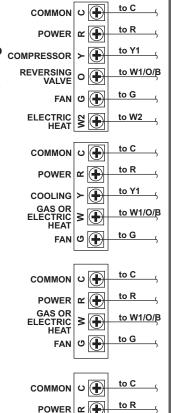
### 5 Wire, 1 Stage Cool & Heat-Gas or Electric

Residential Gas or Electric Heat, Electric Cool, split systems & package units

4 Wire, 1 Stage Heat Gas or Electric

Residential Gas or Electric Heat units with a separately controlled fan.

4 Wire, 1 Stage Cool
Residential Electric Cool



- Control up to 2-Heat & I-Cool
- System Powered
- Backlit Digital Display
- Auxiliary Heat Indicator

COOLING

FAN O

to Y1

Fahrenheit or Celsius



# Installation Instructions





## Model \$1-THEU21P7\$

### **JUMPER SETTINGS**

#### **HEAT PUMP w/ O REVERSING VALVE**

	With Demand
Cooling Mode	Y, G, O
Heating Mode	Y, G, W2*

\*W2 will only be active during 2nd stage heating.



### **HEAT PUMP w/ B REVERSING VALVE**

	With Demand
Cooling Mode	Y, G
Heating Mode	Y, G, B, W2*
*\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	during 2nd stage heati

W2 will only be active during 2nd stage heating

JP 1		ELEC
JP 1	•	GAS
		HP
JP 2	•	HP GAS
		_

# JP 3

### **TEST OPERATION**

On the thermostat, use the MODE button to place the thermostat into the **HEAT** mode. Press the COOLER or WARMER button until the set temperature is 10 degrees above room temperature. The HVAC unit should energize in the heating mode and the **Heat** icon should blink. **Note:** You may need to wait up to five minutes for heating to energize due to the compressor lockout feature.

If your HVAC unit is equipped with 2nd stage strip heat, press the WARMER button once. 2nd stage heating **(W2)** should energize.

On the thermostat, use the MODE button to place the thermostat into the **COOL** mode. Press the COOLER or WARMER button until the set temperature is 10 degrees below room temp. The HVAC unit should energize in the cooling mode and the **Cool** icon should blink.

Note: You may need to wait up to five minutes for cooling to energize due to the compressor lockout feature.

On the thermostat, use the MODE button to place the thermostat into the **OFF** mode. Press the FAN button to display the **Fan On** icon. The fan should turn on and run continuously.

#### GAS FURNACE w/ ELECTRIC COOL

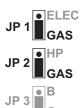
	With Demand
Cooling Mode	Y, G
Heating Mode	W1, W2*, (G)**

\*W2 will only be active during 2nd stage heating.

\*\*In this application 24v will not be present at the

'G' terminal as the fan will be controlled by the

Gas Furnace.



JP 3

• GAS
• HP
• GAS

### **ELECTRIC STRIP HEAT w/ ELECTRIC COOL**

	With Demand	JP
Cooling Mode	Y, G	
Heating Mode	W1, G, W2*	ID 1
W2 will only be active during 2nd stage heating.		

### **TROUBLE SHOOTING**



**SYMPTOM:** The Cooling does not attempt to turn on.

<u>CAUSE:</u> The cooling setpoint is set too high or the thermostat is not in the Cool mode.

**REMEDY:** Consult the Normal Operation section in the Owner's Manual to:

Lower the cooling setpoint

Place the thermostat into the Cool mode



**SYMPTOM:** The Heating does not attempt to turn on.

<u>CAUSE:</u> The heating setpoint is set too low or the thermostat is not in the Heat mode.

**REMEDY:** Consult the Normal Operation section in this manual to:

Raise the heating setpoint

Place the thermostat into the Heat mode







