Springfield, MO 65808-3377

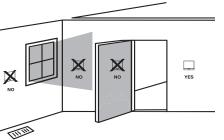
Toll Free: 888-776-1427

Web: www.pro1iaq.com

P.O. Box 3377

Installation Tips

The thermostat should be installed approximately 4 to 5 feet above the floor. Select an area with average temperature and good air circulation.



Installation Tip

Pick an installation location that is easy for the user to access. The temperature of the location should be representative of the building.

Do not install thermostat in locations:

- Close to hot or cold air ducts
- That are in direct sunlight
- With an outside wall behind the thermostat
- In areas that do not require conditioning
- Where there are dead spots or drafts (in corners or behind doors)
- Where there might be concealed chimneys or

pipes

Thermostat Application Guide

Hours of Operation: M-F 9AM - 6PM Eastern

Description	
Gas or Oil Heat	Yes
Electric Furnace	Yes
Heat Pump (No Aux. or Emergency Heat)	Yes
Heat Pump (With Aux. or Emergency Heat)	No
Multi-Stage Systems	No
Heat Only Systems	Yes
Heat Only Systems - Floor or Wall Furnace	Yes
Cool Only Systems	Yes
Millivolt	Yes

Table of Contents	Page
	2-3 4-5 6 7-8 9 10-13 13-16

The display range of temperature ... 41°F to 95°F (5°C to 35°C) The control range of temperature.... 44°F to 90°F (7°C to 32°C)

Power Type

Heating is adjustable from 0.2° to 2.0° Cooling is adjustable from 0.2° to 2.0° .18 to 30 VAC, NEC Class II, 50/60 Hz for hardwire

Battery power from 2 AA Alkaline batteries

32°F to +105°F (0°C to +41°C) . 90% non-condensing maximum 4.7"W x 4.4"H x 0.8"D

Battery Power Hardwire (Common Wire) Hardwire (Common Wire) with Battery Backup

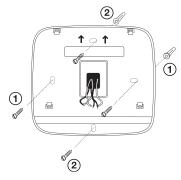
A trained, experienced technician must install this product.

Carefully read these instructions. You could damage this product or cause a hazardous condition if you fail to follow these instructions.

Una version en espanol de este manual se puede descargar en la pagina web de la compania.

Subbase Installation

- 1 Horizontal Mount
- ② Vertical Mount



For vertical mount put one screw on the top and one screw on the bottom.

For horizontal mount put one screw on the left and one screw on the right.

Installation Tip: **Electrical Hazard**

Failure to disconnect the power before beginning to install this product can cause electrical shock or equipment damage.

Mercury Notice

All of our products are mercury free. However, if the product you are replacing contains mercury, dispose of it properly. Your local waste management authority can give you instructions on recycling and proper disposal.

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Specifications

Power source ..

Operating ambient . Operating humidity

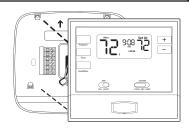
Installation Tips

Swing (cycle rate or differential)

Mount Thermostat

Dimensions of thermostat ...

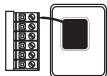
Align the 4 tabs on the subbase with corresponding slots on the back of the thermostat, then push gently until the thermostat snaps in place.



Rev. 1823

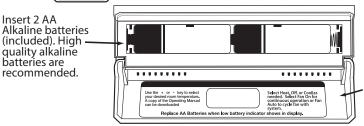
Battery Installation

Battery installation is recommended even if thermostat is hardwired (C terminal connected). When thermostat is hardwired and batteries are installed, the thermostat will activate a compressor delay of 5 minutes when the thermostat detects a power outage from the hardwired power supply.



Important:

High quality alkaline batteries are recommended. Rechargeable batteries or low quality batteries do not guarantee a 1-year life span.

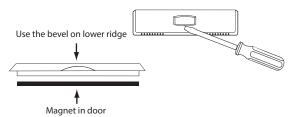


Simple operating instructions are found on the back of the battery

About The Badge

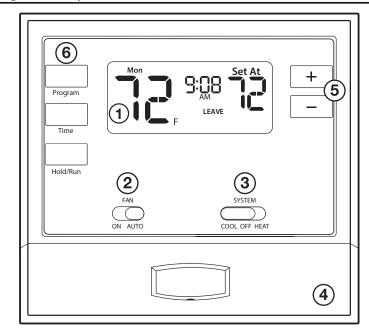
All of our thermostats use the same universal magnetic badge. Visit the company website to learn more about our free private label program.

Gently slide a screwdriver into the bottom edge of the badge. Gently turn the screwdriver counter clockwise. The badge is held on by a magnet in the well of the battery door. The badge should pry off easily. **DO NOT USE FORCE.**



Thermostat Quick Reference

Getting to know your thermostat



- (1) LCD Display
- 2) Fan Switch
- 3) System Switch
- **4**) Easy change battery door
- (5) Temperature Setpoint Buttons
- (6) User Buttons

Getting to know your thermostat

(1) Indicates the current room temperature

(2) Time and day of the week

per day.

Important

Sun Mon Tue Wed Thu Fri Sat

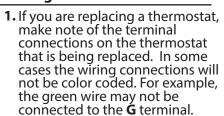
Wiring

Wiring

Set At

COOL ON(5)

HEAT ON





Failure to disconnect the power before beginning to install this product can cause electrical shock or equipment damage.



Warning:

All components of the control system and the thermostat installation must conform to Class II circuits per the NEC Code.



retighten terminal block screws. 3. Place nonflammable insulation into wall opening to prevent drafts.

Terminal Designations

2. Loosen the terminal block

screws. Insert wires then

- Common wire from system transformer
- O Heat pump changeover valve energized in cooling
- Heat pump changeover valve energized in heating
- W Heat relay

- **RH** Transformer power for heating
- **RC** Transformer power for cooling
- **G** Fan relay
- Y Compressor relay

5 System Operation Indicators: ON will display when the COOL or HEAT is on. Compressor delay feature is active if Flashing.

(3) Low Battery Indicator: Replace batteries when this indicator is shown.

(4) **Program Time Periods:** This thermostat has 4 programmable time periods

(6) **Hold** is displayed when the thermostat program is permanently overridden.

The low battery icon is displayed when the AA battery power is low. Whenever the thermostat detects low battery voltage from the AA batteries, the low battery icon will begin flashing on the screen for 21 days (if the batteries are not changed). If the batteries are not changed 22 days after the thermostat detects low battery voltage, the thermostat screen will only show the flashing battery icon until buttons are pressed. If the batteries are not changed 43 days after the thermostat detects low battery voltage, the thermostat screen will only show the flashing battery icon until buttons are pressed and the set points will offset to 85°F/29°C in cooling and 55°F/13°C in beating. At this stage set point changes can be made temporarily but

that buttons are pressed and the set points will order to 85/729 C in Cooling and the Set points will change to 85/729 C in Cooling and the set points will change back to defaulted values after a 4-hour period. The thermostat will continue to perform this low battery flashing, temperature offset condition until the internal voltage threshold is reached. When the thermostat internal voltage threshold is reached, all relays will be opened and the thermostat will become inoperable until new batteries are installed.

LOW.

OLD LEAVE

RETURNSLE 4

(7) **Setpoint:** Displays the user selectable setpoint temperature.

Wiring Tips

RH & RC Terminals

For single transformer systems, leave the jumper wire in place between RH and RC. Remove jumper wire for two transformer systems.

Heat Pump Systems (With NO AUX or Emergency Heat)

If wiring to a heat pump, use a small piece of wire (not supplied) to connect terminals W and Y.

C Terminal

The C (common wire) terminal does not have to be connected when the thermostat is powered by batteries.

Wire Specifications

Use shielded or non-shielded 18-22 gauge thermostat wire.



Installation Tip: Do not overtighten terminal block screws, as this



can damage the terminal block. A damaged terminal block can keep the thermostat from fitting on the subbase correctly or cause system operation issues. **Max Torque = 6in-lbs.**

(6)

Features

Temporary and Permanent Hold Feature

Note: This is a programmable thermostat, and will always be running a programmed schedule. However, it can be overidden with a Temporary or Permanent Hold.

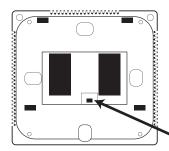
Temporary Hold: With the system in Heat or Cool, anytime the SET-AT temperature is changed with the + or - buttons, the thermostat will enter a Temporary Hold. This will be indicated by "HOLD" flashing and will remain in this hold until the next programmed time period begins.

Permanent Hold: To enter a Permnent Hold, press the Hold/Run button while "HOLD" is flashing. The word "HOLD" will remain on continuously, indicating a Permanent Hold.

To Return to Running Schedule: To manually exit permanent hold and return to scheduled program, press Hold/Run button.

Tech Settings

Gas or Electric Setup



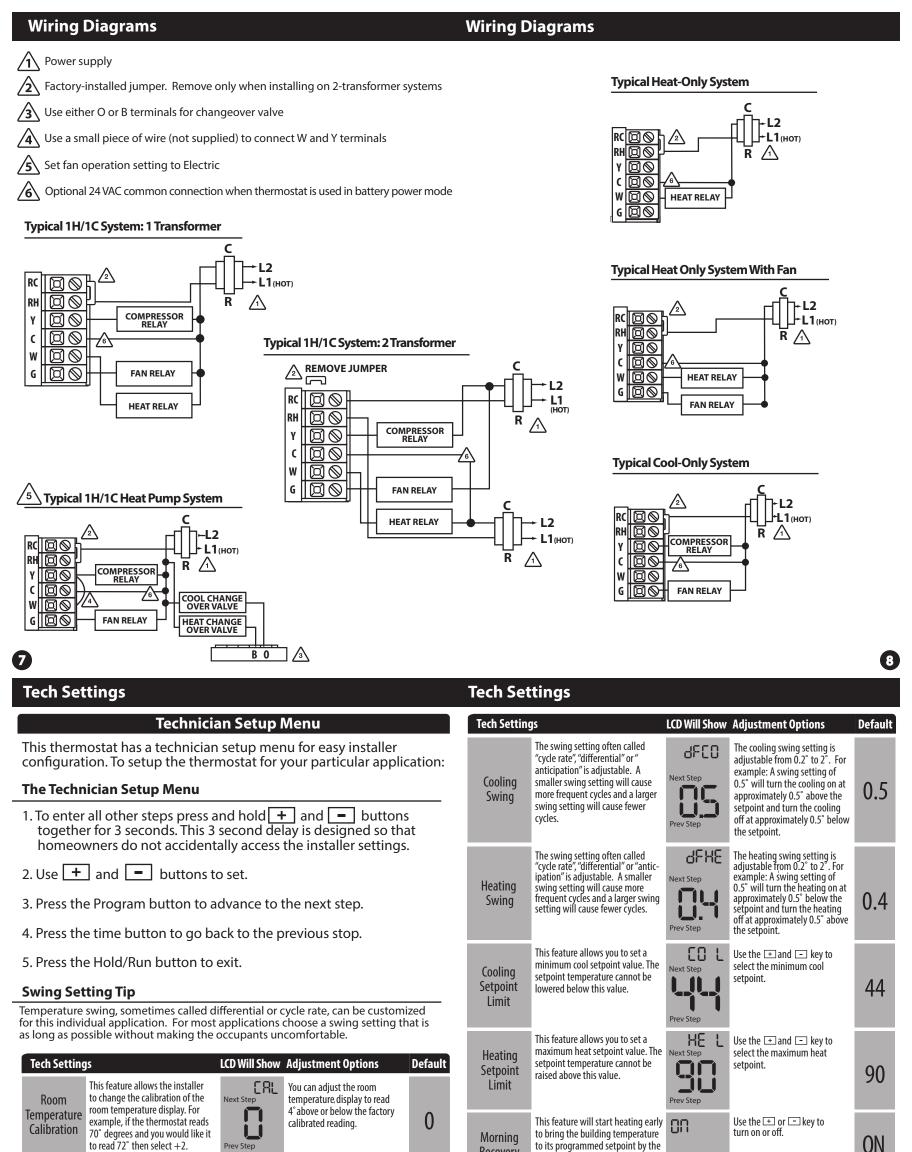
Gas: For systems that control the fan during a call for heat, put the fan operation switch to the GAS position. **Electric**: For systems that do not

control the fan during a call for heat, put the fan operation switch tothe ELECTRIC position.

Fan Operation Switch

Gas: For all systems that control the fan during a call for heat, put the fan operation jumper pin to the GAS position.

Electric: Select Electric to have the thermostat control the fan during a call for heat.



to its programmed setpoint by the beginning of the WAKE, OCCUPIED

You can configure this thermo-

stat to have 7 Day or 5+1+1

time period.

programming.

MORN RECOM

Use the 🛨 and 🖃 key to

5+1+1 programmable.

select **7d** for 7 Day or **5d** for

Recovery

Program

Options

0N

Selecting "ON" will not allow

the compressor to be turned on

for 5 minutes after the last time

the compressor was switched

off. Select "OFF" to remove this

F for Fahrenheit

C for Celsius

Compressor

Short Cycle

Delay

F or C

to read 72° then select +2.

The compressor short cycle delay

short cycling. This feature will not

allow the compressor to be turned

Select F for Fahenheit temperature

read out or select C for Celsius

on for 5 minutes after it was last

turned off.

read out.

protects the compressor from

5d

Programming

Set Time

1. Press TIME

- 2. Day of the week will be flashing. Use the + or key to select the current day of the week.
- 3. Press PROGRAM
- 5. Press PROGRAM
- **6.** Minutes are now flashing. Use the ____ or ___ key to select current minutes.
- **8.** Press the **TIME** button in order to go back a step.
- 7. Press HOLD/RUN when completed.

Programming

Programming

All of our programmable thermostats are shipped with an energy saving pre-program. You can customize this default program by following the steps on page 14.

Your thermostat can be programmed to have all the weekdays the same, a seperate program for Saturday, and a seperate program for Sunday. There are four time periods for each program (WAKE, LEAVE, RETURN, SLEEP).

	Factory Default Program						
Day of the Week	Events	Time	Setpoint Temperature (HEAT)	Setpoint Temperature (COOL)			
Weekday	Wake	6 AM	70°F (21°C)	75°F (24°C)			
	Leave	8 AM	62°F (17°C)	83°F (28°C)			
	Return	6 PM	70°F (21°C)	75°F (24°C)			
	Sleep	10 PM	62°F (17°C)	78°F (26°C)			
	Wake	6 AM	70°F (21°C)	75°F (24°C)			
Saturday	Leave	8 AM	62°F (17°C)	83°F (28°C)			
	Return	6 PM	70°F (21°C)	75°F (24°C)			
	Sleep	10 PM	62°F (17°C)	78°F (26°C)			
Sunday	Wake	6 AM	70°F (21°C)	75°F (24°C)			
	Leave	8 AM	62°F (17°C)	83°F (28°C)			
	Return	6 PM	70°F (21°C)	75°F (24°C)			
	Sleep	10 PM	62°F (17°C)	78°F (26°C)			

B

Programming

You can use the table below to plan your customized program schedule.

Custom Program					
Day of the Week	Events	Time	Setpoint Temperature (HEAT)	Setpoint Temperature (COOL)	
Weekday	Wake				
	Leave				
	Return				
	Sleep				
Saturday	Wake				
	Leave				
	Return				
	Sleep				
Sunday	Wake				
	Leave				
	Return				
	Sleep				

Programming

Set Program Schedule

To customize your program schedule, follow these steps Weekday:

- 1. Select **HEAT** or **COOL** with the system switch. **Note:** You have to program heat and cool each seperately.
- 2. Press the PROGRAM
- **3.** Monday-Friday is displayed and **WAKE** is shown. You are now programming the wake time period for the weekday setting.
- **4.** Time is flashing. Use the + or key to make your time selection for the weekday **WAKE** time period.
- 5. Press PROGRAM
- **6.** The setpoint temperature is flashing. Use the + or key to make your setpoint selection for the weekday wake period.
- 7. Press PROGRAM
- **8.** Repeat steps 4 thru 7 for weekday **LEAVE** time period, for weekday **RETURN** time period, and for weekday **SLEEP** time period.

Saturday:

Repeat steps 4 thru 7 for the Saturday **WAKE** time period, **LEAVE** time period, **RETURN** time period, and for the Saturday **SLEEP** time period.

Sunday:

Repeat steps 4 thru 7 for the Sunday **WAKE** time period, **LEAVE** time period, **RETURN** time period, and for the Sunday **SLEEP** time period.



If using 7-Day Programming use previous steps for every individual day.

1