

This manual covers the following models:

• T801

Thermostat Applications Guide

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			
Cool Only Systems	Yes			
Millivolt	Yes			

Power Type

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

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Una versión española de este manual puede ser descargada en www.pro1iaq.com A trained, experienced technician must install this product.

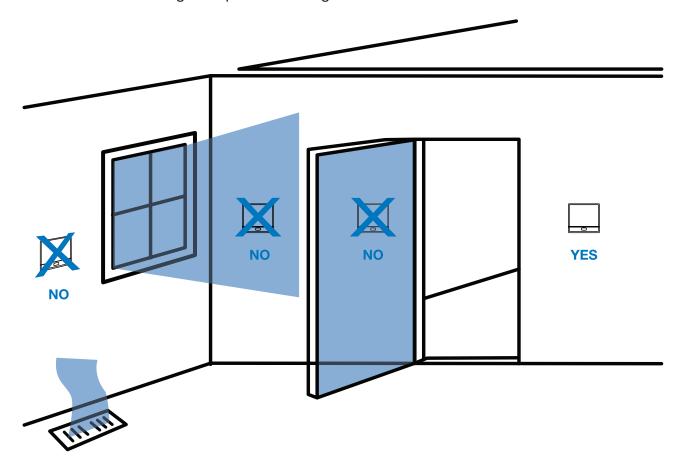
Carefully read these instructions. You could damage this product or cause a hazardous condition if you fail to follow these instructions.

Need Help?

For assistance with this product please visit http://www.pro1iaq.com or call Pro1 Customer Care toll-free at 888-Pro1iaq (776-1427) during normal business hours (Mon-Fri 9 AM - 6 PM Eastern)

Wall locations

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



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

PRO1 Tip

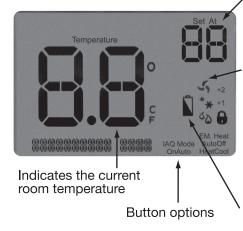
Pick an installation location that is easy for the user to access. The temperature of the location should be representative of the building.

THERMOSTAT QUICK REFERENCE

Getting to know your thermostat



1 LCD



Displays the user selectable setpoint temperature.

NOTE: The compressor delay feature is active if these icons are flashing. The compressor will not turn on until the 5 minute delay has elapsed.

Low Battery Indicator: Replace batteries when indicator is shown

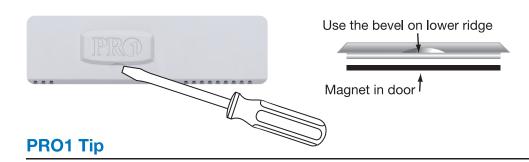
- (2) Glow in the Dark Light Button
- 3 Fan Button
- 4 System Button
- (5) Temperature Setpoint Buttons
- 6 Access Door



Important:

The low battery indicator is displayed when the AA battery power is low. If the user fails to replace the battery within 21 days, the thermostat display will only show the low battery indicator as a final warning before the thermostat becomes inoperable. The batteries are located on the back of the Thermostat.

Removing the private label badge



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. The badge should pry off easily. Do not use force.

All Pro1 thermostats use the same universal magnetic badge. Visit our website at www.pro1iaq.com to learn more about our free private label program.

SUB-BASE INSTALLATION



Caution: Electrical Hazard

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



Mercury Notice:

All of Pro1's 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.

For vertical mount put one screw top and one screw bottom. Vertical mount For horizontal mount put one screw left and one screw right. 囤 Horizontal mount Horizontal mount 個 [Led] Vertical mount



Caution: Electrical Hazard

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

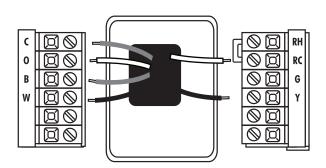


Warning:

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

Wiring

- 1. If you are replacing a thermostat, make note of the terminal connections on the thermostat that is being replaced. In some cases the wiring connections will not be color coded. For example, the green wire may not be connected to the **G** terminal.
- 2. Loosen the terminal block screws. Insert wires then retighten terminal block screws.
- 3. Keep wires in shaded image as shown by pushing wires into wall opening.
- 4. Place nonflammable insulation into wall opening to prevent drafts.



Terminal Designations

- W Heat relay
- Y Compressor relay
- G Fan relay
- Heat pump changeover valve energized in cooling
- RC Transformer power for cooling

RH Transformer power for heating

- B Heat pump changeover valve energized in heating
- C Common wire from secondary side of heating system transformer

PRO1 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

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

C terminal

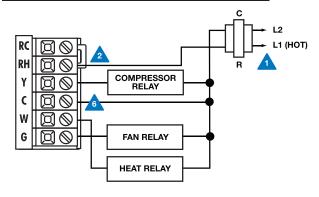
The C (common wire) terminal does not have to be connected when the thermostat is powered by batteries.

Wire specifications

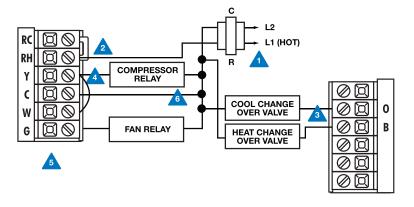
Use shielded or non-shielded 18 - 22 gauge thermostat wire.

- Power supply
- Factory-installed jumper. Remove only when installing on 2-transformer systems.
- Use either O or B terminals for changeover valve.
- Use a small piece of wire (not supplied) to connect W and Y terminals.
- Set fan operation switch to electric
- Optional 24 VAC common connection when thermostat is used in battery power mode.

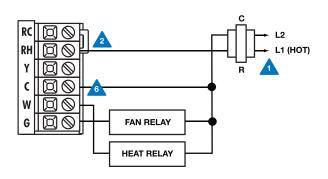
Typical 1H/1C system: 1 transformer



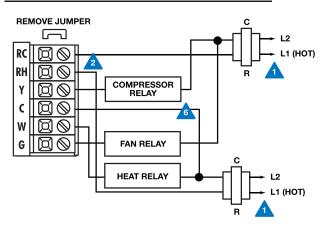
Typical 1H/1C heat pump system



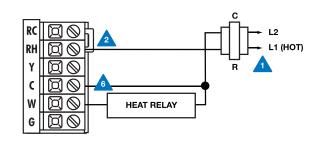
Typical heat-only system with fan



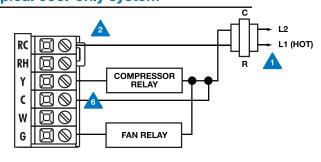
Typical 1H/1C system: 2 transformer



Typical heat-only system



Typical cool-only system



TECHNICIAN SETUP MENU

Technician Setup Menu

This thermostat has a technician setup menu for easy installer configuration. To set up the thermostat for your particular application:

- 1. Hold down + and key together for 3 seconds.
- 2. Configure the installer options as desired using the table below.
- 2. Use the ____ or ___ keys to change settings and the **SYSTEM** or **FAN** key to move from one step to another.

You can press the + and - keys together for 3 seconds to go back to normal operation. Or the thermostat will go back to normal operation in one minute if no keys are pressed.

the installer to thange the installer to dange the compressor. For example, a setting of OFF will disable this To will Show To ward quist the installer to dange the installer to thange the compressor. For example, a setting of OFF will disable this To and you would like it to read 72° then select +2. To will Show To an adjust ment Options You can adjust the filter change reminder from OFF to 2000 hours of runtime of the filter change reminder from OFF to 2000 hours of runtime in 50 hour increments. To will stable this To and you would like it to read 72° then select +2. To will Show You can adjust the room temperature display to ready 4°F to +4°F above or below the factory calibrated reading. To will stable this installer to the dange the compressor to the tore minimum un time for the compressor to t	Filter Change Reminder	Room Temperature Calibration	Minimum Compressor On Time	Compressor Short Cycle Delay	Cooling Swing	Heating Swing	Keypad Lockout
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room temperature display to ready 4°F to +4°F above or below the factory in 50 hour increments. room temperature display to ready 4°F to +4°F above or below the factory calibrated reading. room temperature display to ready 4°F to +4°F above or below the factory calibrated reading. "5" minutes. If 3, 4, or 5 is selected, the compressor was on. Select OFF to to to be turned on for 5 minutes after the last time the compressor was on. Select OFF to to to be turned on for 5 minutes after the last time the compressor was on. Select OFF to to to be turned on for 5 minutes after the last time the compressor was on. Select OFF to to to to be turned on for 5 minutes after the last time the compressor was on. Select OFF to to to be turned on for 5 minutes after the last time the compressor was on. Select OFF to to to be turned on for 5 minutes after the last time the compressor was on. Select OFF to to to be turned on for 5 minutes after the last time the compressor was on. Select OFF to to to be turned on for 5 minutes after the last time the compressor was on. Select OFF to to to be turned on for 5 minutes after the last time the compressor was on. Select OFF to to to be turned on for 5 minutes after the last time the compressor was on. Select OFF to to to be turned on for 5 minutes after the last time the compressor was on. Select OFF to to to be turned on for 5 minutes after the last turn the cooling on at approximately 0.5°F above the setpoint and turn the position of the form to to be turned on for 5 minutes after the last turn the cooling on at approximately 0.5°F above the setpoint and turn the cooling on the form to to be turned on for 5 minutes after the last turn the cooling on at approximately 0.5°F above the setpoint and turn the cooling on the form to	Adjustment Options						
Note: Keypad	the filter change reminder from OFF to 2000 hours of runtime in 50 hour	room temperature display to ready 4°F to +4°F above or below the factory	minimum compressor run time from "off", "3", "4", or "5" minutes. If 3, 4, or 5 is selected, the compressor will run for at least the	allow the compressor to be turned on for 5 minutes after the last time the compressor was on. Select OFF to	setting is adjustable from ±0.2°F to ±2°F. For example: A swing setting of 0.5°F will turn the cooling on at approximately 0.5°F above the setpoint and turn the cooling off at approximately 0.5°F below the	setting is adjustable from ±0.2°F to ±2°F. For example: A swing setting of 0.5°F will turn the heating on at approximately 0.5°F below the setpoint and turn the heating off at approximately 0.5°F	Pick PA or FU PA = partial keypad lockout, which locks all the keys except the + or - keys. FU = Full keypad lockout, which locks out all the keys. Note: Keypad lockout instructions are below
Factory Default Settings	OFF	0 ºF	OFF	ON	0.5 ºF	0.4 ºF	PA

Heating Temperature	Cooling Temperature	ºF or ºC	Fan Operation	Display Light	Contractor Call Number	Веер	System Switch
Temperature Setpoint Limit	Temperature Setpoint Limit	c.lr.f	•			ud l	
This feature allows you to set a maximum heat setpoint value. The setpoint temperature cannot be raised above this value.	This feature allows you to set a minimum cool setpoint value. The setpoint temperature cannot be lowered below this value.	Select F for Fahrenheit temperature read out or select C for Celsius read out	Select GAS for systems that control the fan during a call for heat. Select ELEC to generate the fan when the fan relay is connected to the G terminal.	The display light can be configured to stay on at all times or come on when any key is pressed. NOTE: HARDWIRE ONLY Always running the light on battery power will drain batteries at a tremendously quicker rate.	Allows you to put your phone number in the display. Selecting "ON" will enable this feature. "OFF" will disable this feature.	When any key is pressed an audible beep will sound. There is an ON or an OFF.	You can configure the system switch for the particular application: Heat - Off - Cool, Heat - Off, Cool - Off, Heat - Off - Cool-Auto
LCD Will Show							
HE 90	COOL LINT	74, 05	ELEC	on dL	OFF CRLL	OF ON	Heat Off Cool
Adjustment Options							
Use the + or - key to select the maximum heat setpoint.	Use the + or - key to select the minmum cool setpoint.	^o F for Fahrenheit on Celsius	GAS or ELEC	OFF configures display light to come on when the light key or any other key is preseed.	If selected on, you will see the input screen after pressing SYSTEM key.	If ON is selected the beep will sound. If OFF is selected, there is no sound.	Use the + or - key until the desired application is flashing.
Range 44ºF - 90ºF	Range 44°F - 90°F			ON configures the display light to stay on.	Use the + key to move from one character to another.	15 110 300114.	
				Use the + or - key to turn on or off.	Use the key to change the blinking character. Press SYSTEM key when finished.		
Factory Default Setting 90 °F	s 44 ºF	ºF	GAS	OFF	OFF	On	Heat - Off - Cool

A Note About Auto Changeover:

If in Auto you have the ability to switch between Auto Heat or Auto Cool by pressing the System key. This can be done once the current mode has reached its set-point. For example: if in Auto Heat, the heat setpoint must be satisfied before the thermostat will allow you to switch to Auto Cool. You can switch out of Auto by holding down the System key. To get back into Auto, you must toggle the System key to Auto.

Note: If Contractor Call Number is selected **ON**, your phone number will show in the display if there has been a continuous call for heating or cooling for 24 hours or if the light button is held down for 3 seconds. To remove the phone number from the display, hold the light button down for 3 seconds.

MOUNT THERMOSTAT & BATTERY INSTALLATION

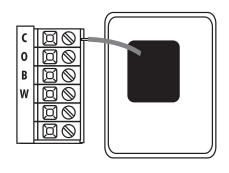
Mount Thermostat

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.



Battery Installation

Battery installation is optional if thermostat is hardwired (C terminal connected).





On the back of the thermostat insert 2 AA Alkaline batteries (included).

SPECIFICATIONS & CONTACT INFORMATION

Specifications

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)
Load rating	1 amp per terminal, 1.5 amp maximum all terminals combined
Display accuracy	± 1°F
Swing (cycle rate or differential)	. Heating is adjustable from 0.2°F to 2.0°F
	Cooling is adjustable from 0.2°F to 2.0°F
Power source	18 to 30 VAC, NEC Class II, 50/60 Hz for hardwire (common wire)
	Battery power from 2 AA Alkaline Energizer batteries
Operating ambient	
Operating humidity	90% non-condensing maximum
Dimensions of thermostat	4.7"W x 4.4"H x 1.1"D

Contact Us

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Hours of Operation:

Monday - Friday 9 AM - 6 PM Eastern