# PRU T805

#### Pro1 Technologies, Inc.

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**Toll-Free:** 888-776-1427 **Web:** www.pro1iaq.com **Hours of Operation:** M-F 9AM - 6PM Eastern



## 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

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#### **Power Type**

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

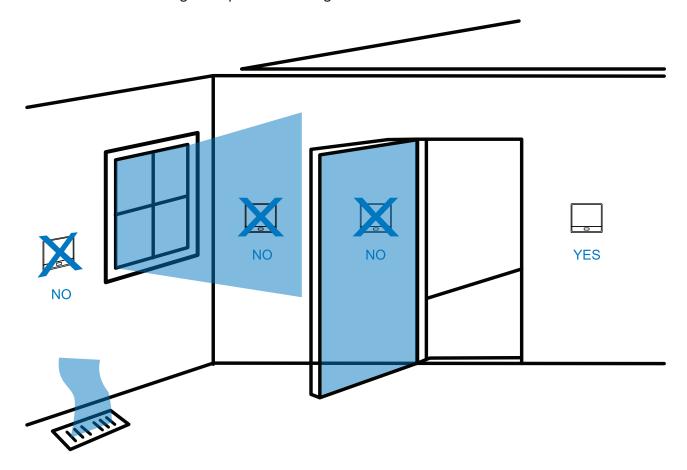
A trained, experienced technician must install this product.

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

Una version espanola de este manual puede ser descargada en la pagina web de la compania.

#### 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

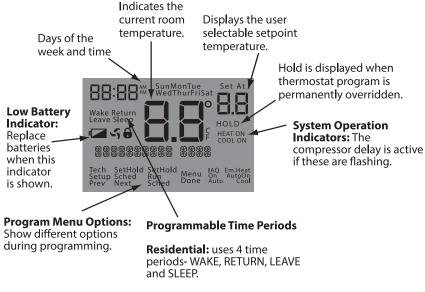
#### **Installation Tip**

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

## THERMOSTAT QUICK REFERENCE

#### **Getting to know your thermostat**





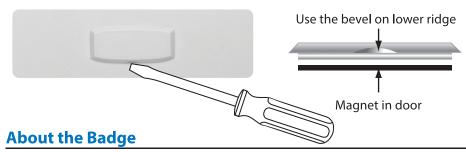
- 1 LCD Display
- (2) Glow in the Dark Light Button
- (3) Set Point Buttons
- 4-6 Program Buttons
  - (7) Menu Button
  - 8 Fan Button
  - (9) System Button
  - 10 Button/Battery Access Door
  - (11) Battery Cover



#### **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 screen will only show the low battery indicator but maintain all functionality. If the user fails to replace the batteries after an additional 21 days (days 22-42 since first "low battery" display) the set points will change to 55°F(Heating) and 85°F(Cooling). If the user adjusts these setpoints away from these it will hold for 4 hours then return to either 55°F or 85°F. After day 42 the batteries must be replaced immediately to avoid freezing or overheating because the thermostat will shut the unit off until the battery is changed.

#### 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 our thermostats use the same universal magnetic badge.

Visit our website to learn more about our free private label program.

## SUBBASE 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 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.

For vertical mount put one screw top and one screw bottom. Vertical mount For horizontal mount put one screw left and one screw right. 同 国 Horizontal mount Horizontal mount 個 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. Place nonflammable insulation into wall opening to prevent drafts.



#### Caution:

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

#### **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
- 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.

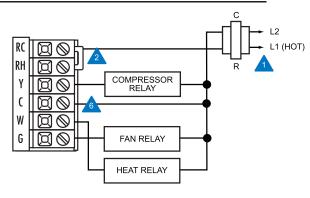
#### Wire specifications

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

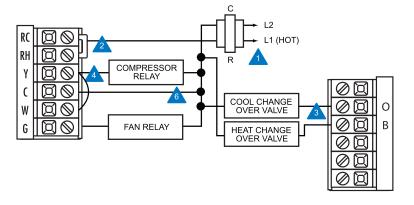
## **WIRING DIAGRAMS**

- 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.

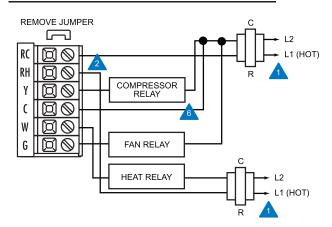
#### Typical 1H/1C system: 1 transformer



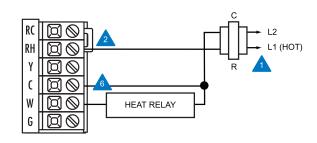
#### Typical 1H/1C heat pump system



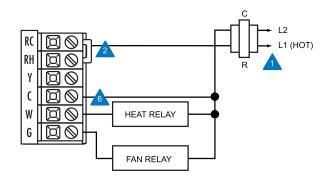
#### Typical 1H/1C system: 2 transformer



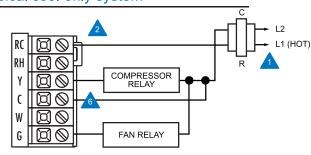
#### Typical heat-only system



#### Typical heat-only system with fan



#### 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. Press MENU button
- 2. Press and hold TECHNICIAN SETUP button for 3 seconds. This 3 second delay is designed so that homeowners do not accidentally access the installer settings.
- 3. Configure the installer options as desired using the table below.

Use the + or - keys to change settings and the NEXT STEP or PREV STEP key to move from one step to another. Note: Only press DONE key when you want to exit the Technician Setup options.

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You can adjust the filter change reminder from CFF to 2000 hours of runtime increments.  You can adjust the room temperature display to read -4°F to +4°F above or below the factory calibrated reading.  You can select the minimum compressor run time from "off", "3", "4", or "5" minutes. If 3, 4, or 5 is selected, the compressor was on. Select OFF to remove this delay.  You can adjust the room adjust the room temperature display to read -4°F to +4°F above or below the factory calibrated reading.  You can adjust the room adjust the room temperature display to read -4°F to 2000 hours of runtime from "off", "3", "4", or "5" minutes after the last time the compressor was on. Select OFF to remove this delay.  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 above the setpoint and turn the cooling off at approximately 0.5°F above the setpoint and turn the cooling off at approximately 0.5°F above the setpoint and turn the cooling off at approximately 0.5°F above the setpoint and turn the cooling off at approximately 0.5°F above the setpoint and turn the cooling off at approximately 0.5°F above the setpoint and turn the cooling off at approximately 0.5°F above the setpoint and turn the cooling off at approximately 0.5°F above the setpoint and turn the cooling off at approximately 0.5°F above the setpoint and turn the cooling off at approximately 0.5°F above the setpoint and turn the cooling off at approximately 0.5°F above the setpoint and turn the cooling off at approximately 0.5°F above the setpoint and turn the cooling off at approximately 0.5°F above the setpoint and turn the cooling off at approximately 0.5°F above the setpoint and turn the cooling off at approximately 0.5°F above the setpoint and turn the cooling off at approximately 0.5°F above the setpoint and turn the cooling off at approximately 0.5°F above the setpoint and turn the above 0.5°F above the setpoint and turn the above 0.5°F above the setpoint and turn the ab	This feature will flash FILT in the display after the elapsed run time to remind the user to change the filter. A setting of OFF will disable this feature.	the installer to change the calibration of the room temperature display. For example, if the thermostat reads 70° and you would like it to read 72° then	installer to select the minimum run time for the compressor. For example, a setting of 4 will force the compressor to run for at least 4 minutes every time the compressor turns on, regardless of the room	cycle delay protects the compressor from "short cycling". This feature will not allow the compressor to be turned on for 5 minutes after it was	rate", "differential" or "anticipation" is adjustable. A smaller swing setting will cause more frequent cycles and a larger swing setting will	often called "cycle rate", "differential" or "anticipation" is adjustable. A smaller swing setting will cause more frequent cycles and a larger swing setting will cause fewer	allows you to configure the thermostat so that none or some of the keys do not
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	You can adjust the filter change reminder from OFF to 2000 hours of runtime in 50 hour increments.	room temperature display to read -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 selected time before	allow the compressor to be turned on for 5 minutes after the last time the compressor was on. Select OFF	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 above the	+ or - keys.  FU = Full keypad lockout, which locks out all the keys.  Note: keypad lockout
	)FF	0 °F	OFF	ON	0.5 ℉	0.4 °F	OFF

Note: The function of activating your Keypad Lockout choice takes place after you have exited Tech Setup. If you do not perform this activation procedure, all keys will function freely. To lock the keypad hold down the + and - keys for 3 seconds. You will see a lock in the display. To unlock the keypad hold down the + and - keys for 3 seconds.





## TECHNICIAN SETUP MENU

Tech Setup Step	s (Continued from	the previous page)				
Heating Temperature Setpoint Limit	Cooling Temperature Setpoint Limit	°F or °C	12 or 24 Hour Clock	Fan Operation	Morning Recovery	Program Options
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	You can select either a 12 or 24 hour clock setting.	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.	This feature will start heating early to bring the building temperature to its programmed setpoint by the beginning of the time period (WAKE, OCCUPIED).	You can configure this thermostat to have a 7 day program, a 5+1+1 program or nonprogrammable.
LCD Will Show						
HE 90	Company Compan	TE,	IZH	ELE notice from them	ON 150 to the low	Sd (mar from the conn
Adjustment Options						
Use the + or - key to select the maximum heat setpoint.	Use the + or - key to select the minimum cool setpoint.	°F for Fahrenheit °C for Celsius	Use the + or - key to select 12 or 24 hour clock.	GAS or ELEC	Use the + or - key to turn on or off.	Use the + or - key to select 7d for 7 day, 5d for 5+1+1, or 0d for nonprogammable.
Factory Default Settings						
90 °F	44 °F	°F	12 Hour Clock	GAS	ON	5d



#### **Saving Setting Tip**

Temperature swing, sometimes called differetial or cycle rate, can be customized for this individual application. For most applications choose a swing setting that is as long as possible without making the occupants uncomfortable.

## **TECHNICIAN SETUP MENU**

Tech Setup Step	s (Continued from t	the previous page)					
Display Light	Contractor Call Number	Веер	System Switch	Cooling Fan Delay	Humidity Pad Reminder	UV Lamp Reminder	IAQ Cell Reminder
The display light can be configured to come on when any key is pressed or only when the light key is pressed.	Allows you to put your phone number in the display. You can choose ON or OFF	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	The cooling fan delay setting will delay the fan from coming on in cool mode and keep running after the compressor shuts off for a short time to save energy in some systems.	This wi <b>ll</b> remind the user to change the humidity pad.	Will remind the user to change the UV light bulb.	Will remind the user to change the PHI Cell after 25,000 hrs.
LCD Will Show							
	OU.  OU.  Market Strate Same	ON b	Name of the San Co.	OFF  COOL FRN DL  Med Star Star	OFF	OFF	250 <b>00</b>
Adjustment Options							
OFF configures display light to come on only with the light key, which will save battery power.  ON configures the display light to come on when any key is pressed.	If selected ON, you will see the input screen after pressing next step.  Use the + or - keys to select the desirednumber and the FAN or SYSTEM key to move from one character to another. See Note below on operation.	If ON is selected the beep will sound. If OFF is selected, there is no sound.	Use the + or - key to select the desired application.	You can select the Cooling Fan Delay from OFF, 15, 30, 60 or 90 Seconds.	Use the + or - key to select OFF, 600, 1000, 1500, 2000. These represent hours of heat operation.	Use the [+] or [-] key to select OFF, 1YEAR, 2YEAR.	Use the + or - key to select OFF, 250. (Stands for 25000 hours)
Factory Default Settings							
ON	OFF	ON	Heat - Off - Cool	OFF	OFF	OFF	OFF

**Reminders Note:** Once a Reminder has been turned on and set, the elapsed time can be checked by navigating to it's tech setup step. The elapsed time will then appear in the text field. It can also be reset at that time by a press and hold of the third button from the left for 3 seconds. Resetting an expired Reminder can be done without entering tech setup, by a press and hold of the 3erd button from the left for 3 seconds.

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.

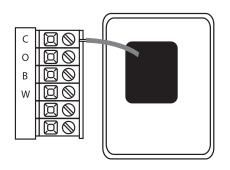
Note: To insure a solid fit between the thermostat and the subbase:

- 1. Mount subbase to a flat wall
- 2. Use screws provided
- 3. Drywall anchors should be flush with the wall
- 4. Wires should be pushed into the wall



#### **Battery Installation**

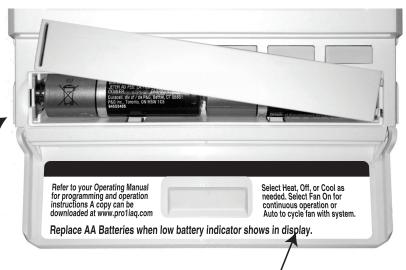
Battery installation is recommended even if thermostat is hardwired (C terminal connected). When thermostat is hardwired and batteries are installed, the thermostat will activate a compressor delay of 5 minutes when the thermostat detects a power outage from the hardwired power supply.



To release battery cover press finger bevel on the left side and lift the cover to access batteries.

#### **Important:**

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



Simple operating instructions are found on the back of the battery door.

## PROGRAMMING THE THERMOSTAT

#### Set Time

Follow the steps below to set the day of the week and current time:

- 1. Press MENU
- 2. Press SET TIME
- 3. Day of the week will be flashing. Use the \_\_\_\_ key to select the current day of the week.
- 4. Press NEXT
- 5. The current hour is flashing. Use the + or key to select the current hour. When using 12-hour time, make sure the correct a.m. or p.m. choice is selected.
- 6. Press NEXT
- 7. Minutes are now flashing. Use the + or key to select current minutes
- 8. Press DONE when completed

#### **Programming**

All programmable thermostats are shipped with an energy saving pre-program. You can customize this default program by following the Set Program Schedule.

Your thermostat can be programmed to have each day of the week programmed uniquely (7 days), all the weekdays the same, a separate program for Saturday, and a separate program for Sunday (5+1+1), or non-programmable. This thermostat has a programmable fan feature, which allows you to run the fan continuously during any time period. 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 a.m.	70° F (21° C)	75° F (24° C)	
	Leave 👬	8 a.m.	62° F (17° C)	83° F (28° C)	
	Return +	6 p.m.	70° F (21° C)	75° F (24° C)	
	Sleep 🐪	10 p.m.	62° F (17° C)	78° F (26° C)	
Saturday	Wake 🚮	8 a.m.	70° F (21° C)	75° F (24° C)	
	Leave 👬	10 a.m.	62° F (17° C)	83° F (28° C)	
	Return + 1	6 p.m.	70° F (21° C)	75° F (24° C)	
	Sleep 🐪	11 p.m.	62° F (17° C)	78° F (26° C)	
Sunday	Wake 🕍	8 a.m.	70° F (21° C)	75° F (24° C)	
	Leave 👬	10 a.m.	62° F (17° C)	83° F (28° C)	
	Return + 1	6 p.m.	70° F (21° C)	75° F (24° C)	
	Sleep 🕌	11 p.m.	62° F (17° C)	78° F (26° C)	

## PROGRAMMING THE THERMOSTAT

You can use the table below to plan your customized program schedule if using 5+1+1.

	Programming Table				
Day of the Week	Events	Time	Setpoint Temperature (Heat)	Setpoint Temperature (Cool)	
Weekday	Wake 🔏 🔒				
	Leave 4iff				
	Return i 👬				
	Sleep 👚				
Saturday	Wake 🕍				
	Leave 👬				
	Return i 👬				
	Sleep 👚				
Sunday	Wake 🕍				
	Leave 4111				
	Return i 👬				
	Sleep 👚				

#### Set Program Schedule

To customize your 5+1+1 program schedule, follow these steps Weekday:

- 1. Select HEAT or COOL using the SYSTEM key. Note: You have to program heat and cool each separately.
- 2. Press MENU
- 3. Press SET SCHED. Note: Monday-Friday is displayed and the WAKE icon 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. Note: If you want the fan to run continuously during this time period, select ON with the FAN key.
- 5. Press NEXT
- 6. The setpoint temperature is flashing. Use the + or key to make your setpoint selection for the weekday WAKE period.
- 7. Press NEXT
- 8. Repeat steps 4 through 7 for weekday LEAVE time period, for weekday RETURN time period, and for weekday SLEEP time period.

#### Saturday:

 Repeat steps 4 through 7 for Saturday WAKE time period, for Saturday LEAVE time period, for Saturday RETURN time period, and for Saturday SLEEP time period.

#### Sunday:

10. Repeat steps 4 through 7 for Sunday WAKE time period, for Sunday LEAVE time period, for Sunday RETURN time period, and for Sunday SLEEP time period.

## PROGRAMMING THE THERMOSTAT

To customize your 7 day program schedule, follow these steps:

- 1. Select HEAT or COOL using the system key. You have to program heat and cool each separately.
- 2. Press MENU
- 3. Press SET SCHED

Note: Monday is displayed and the WAKE icon is shown. You are now programming the WAKE time period for the Monday setting.

- 4. Time is flashing. Use the \_ + \_ or \_ \_ key to make your time selection for the Monday WAKE time period. Note: If you want the fan to run continuously during this time period, select ON with the FAN key.
- Press NEXT
- 6. The setpoint temperature is flashing. Use the + or key to make your setpoint selection for the Monday WAKE period.
- 7. Press NEXT
- 8. Repeat steps 4 thru 7 for Monday LEAVE time period, for Monday RETURN time period, and for Monday SLEEP time period.

#### Tuesday, Wednesday, Thursday, Friday, Saturday, Sunday

Repeat steps 4 thru 7 for the remaining days of the week.

#### 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.

#### A Note About Programmable Fan:

The programmable fan feature will run the fan continuously during any time period it is programmed to be on. This is the best way to keep the air circulated and to eliminate hot & cold spots in your building.

## Specifications

The display range of temperature 41°F	F to 95°F (5°C to 35°C)
The control range of temperature 44°N	F to 90°F (7°C to 32°C)
Load rating 1 ar	mp per terminal, 1.5 amp maximum all terminals combined
Display accuracy ± 1°	°F
Swing (cycle rate or differential) Hea	ating is adjustable from 0.2°F to 2.0°F
Coc	oling is adjustable from 0.2°F to 2.0°F
Power source 18 t	to 30 VAC, NEC Class II, 50/60 Hz for hardwire (common wire)
Batt	tery power from 2 AA Alkaline Energizer batteries
Operating ambient 32°F	F to +105°F (0° to +41°C)
Operating humidity 90%	√ non-condensing maximum
Dimensions of thermostat 4.7"	'W x 4.4"H x 1.1"D