INSTALLATION MANUAL

PRO1 IAQ®

TRUE COMFORT ||||

ENERGY STAR

This manual covers the following models:
- **T915**

Thermostat Applications Guide

Description	
Gas or Oil Heat	Yes
Electric Furnace	Yes
Heat Pump (No Aux. or Emergency Heat)	No
Heat Pump (with Aux. or Emergency Heat)	No
Multi-stage Systems	Yes
Heat Only Systems	Yes
Cool Only Systems	Yes
Millivolt	No

Power Type

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

Table of Contents

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)

Una versión española de este manual puede ser descargada en www.pro1iaq.com

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.
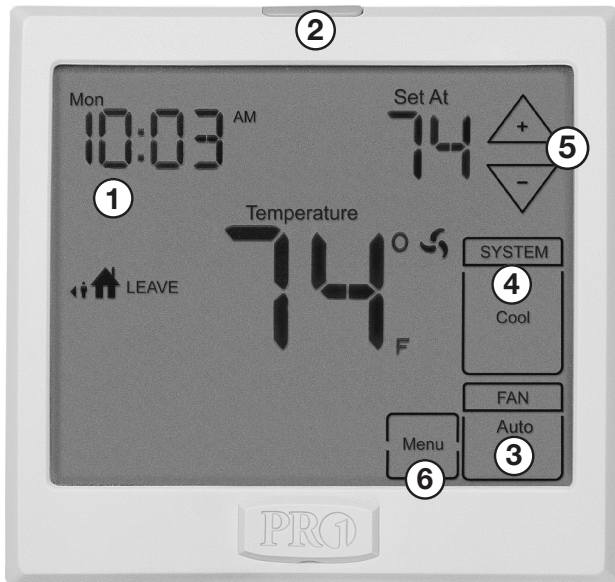

NO

NO

NO

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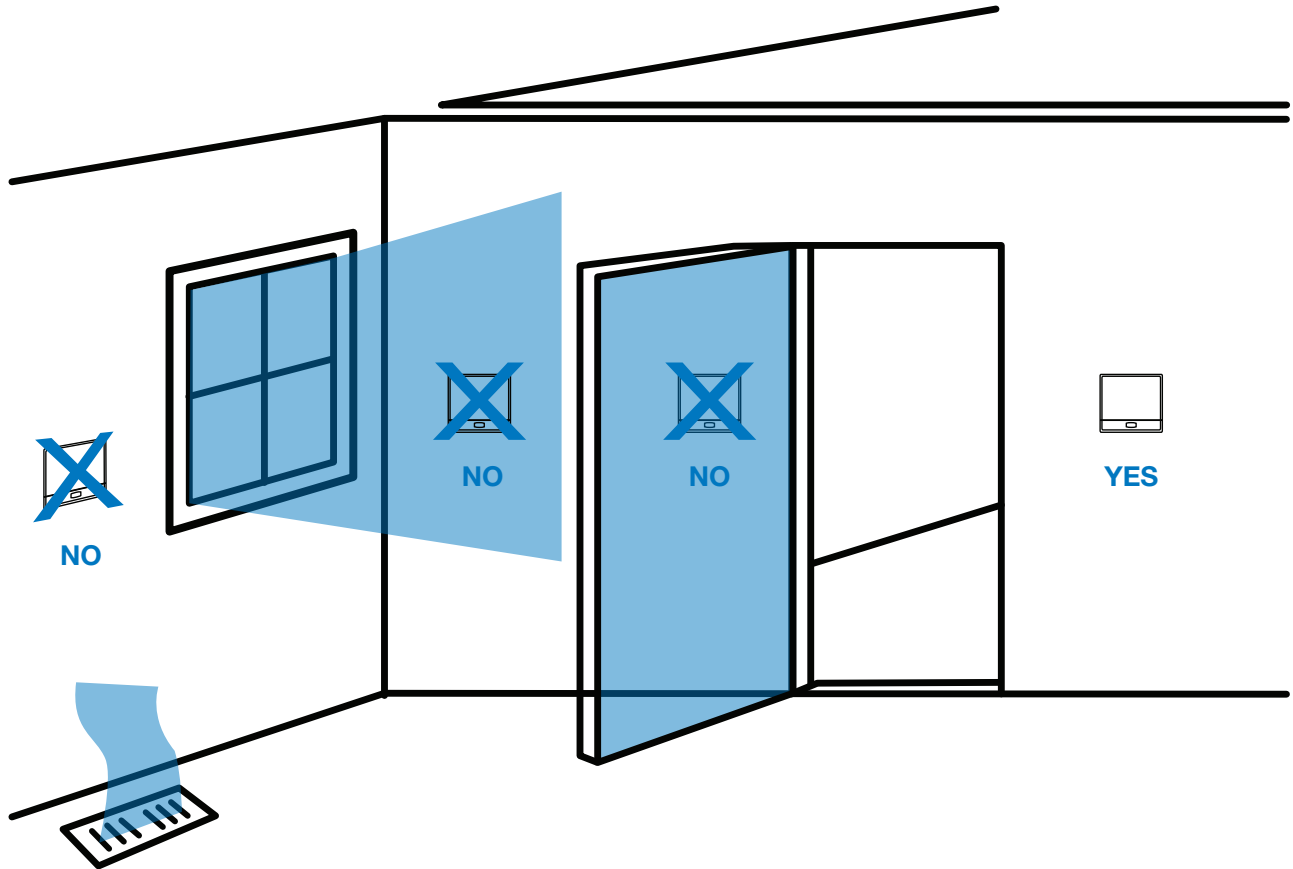
Do not install thermostat in locations:
• Close to hot or cold air ducts
• That are in direct sunlight
• With an outside wall behind the thermostat
• In areas that do not require conditioning
• Where there are dead spots or drafts (in corners or behind doors)
• Where there might be concealed chimneys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

Getting to know your thermostat

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.

② **Glow in the Dark Light Button**

③ **Fan Button**

④ **System Button**

⑤ **Temperature Setpoint Buttons**

⑥ **Menu Button**

① **LCD**

Days of the week and time

Indicates the current room temperature.

Displays the user selectable setpoint temperature.

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

Programmable Time Period Icons: This thermostat has 4 programmable time periods per day.

Clean Display: Pressing **CLEAN DISPLAY** will allow 30 seconds to clean the display. The keys will be inoperable during this time. **CLEAN** will appear if your contractor has programmed a filter change reminder. Press **CLEAN** when filter has been replaced to reset the filter change reminder timer.

HOLD is displayed when thermostat program is permanently overridden.

System operation indicators: The **COOL, HEAT** or **FAN** icon will display when the **COOL, HEAT** or **FAN** is on.

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.

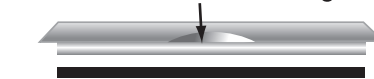**Program Menu Options:** Shows different options during programming.

+1 will appear in the display when second stage of heat or cool is on.

Removing the private label badge

Use the bevel on lower ridge

Magnet in door

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.**

PRO1 Tip

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.

Caution:
Electrical Hazard
Failure to disconnect the power before beginning to install this product can cause electrical shock or equipment damage.
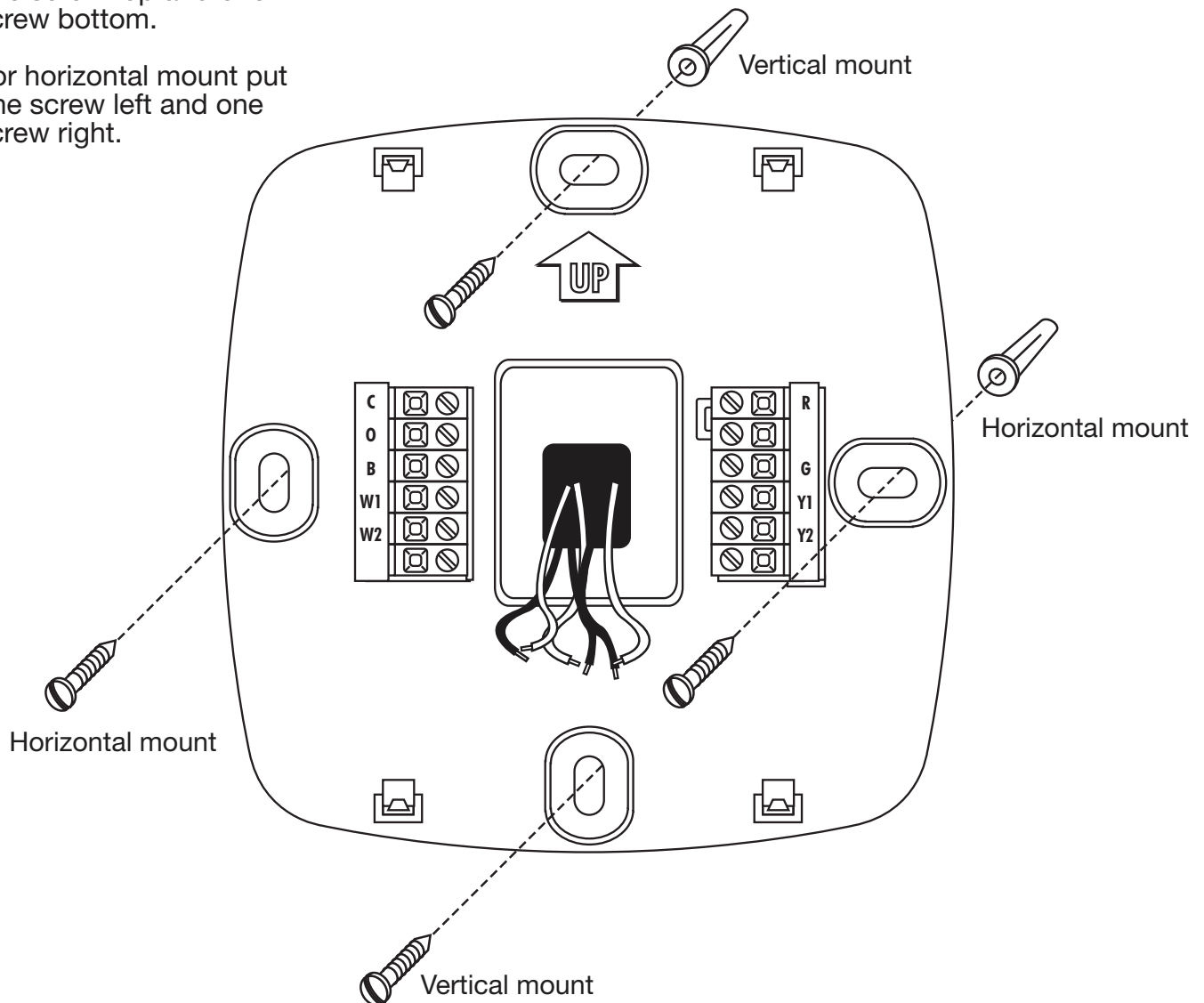
Mercury Notice:
All of Pro1's products are mercury free. However, if the product you are replacing contains mercury, dispose of it properly. Your local waste management authority can give you instructions on recycling and proper disposal.

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

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

Vertical mount

Horizontal mount

Horizontal mount

Vertical mount

UP

C
O
B
W1
W2

R
G
Y1
Y2

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.

Terminal Designations

W1 Heat relay, Stage 1

W2 Heat relay, Stage 2

Y1 Compressor relay, Stage 1

Y2 Compressor relay, Stage 2

G Fan relay

O Heat pump changeover valve energized in cooling

R Transformer power for heating

B Heat pump changeover valve energized in heating

C Common wire from system transformer

PRO1 Tips:

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.

Technician Setup Menu

This thermostat has a technician set up 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 **PREVIOUS STEP** key to move from one option to another. **Note:** Only press **DONE** key when you want to exit the Technician Setup options.

Tech Setup Steps

Filter Change Reminder	Room Temperature Calibration	Minimum Compressor On Time	Compressor Short Cycle Delay	Cooling Swing	Heating Swing	Keypad Lockout
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.	This feature allows 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 select +2.	This feature allows the 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 temperature.	The compressor short 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 last turned off.	The swing setting, 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 cycles.	The swing setting, 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 cycles.	Keypad lockout allows you to configure the thermostat so that none or some of the keys do not function.

LCD Will Show

50 / SE	50 /	OFF ON / AN	OFF OF / CO	0.8 dF / CO	0.8 dF / HE	FU

Adjustment Options

| You can adjust the filter change reminder from **OFF** to 2000 hours of runtime in 50 hour increments. | You can adjust the room temperature display to ready -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 will run for at least the selected time before turning off. | Selecting **ON** will not allow the compressor to be turned on for 5 minutes after the last time the compressor was on. Select **OFF** to remove this delay. | The cooling swing setting is adjustable from ±0.4°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 setpoint. | The heating swing setting is adjustable from ±0.4°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 setpoint. | 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 °F	OFF	ON	0.5 °F	0.4 °F	NA

Note: 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.
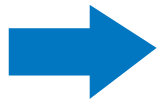
TECHNICIAN SETUP MENU

Tech Setup Steps (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 have the thermostat control the fan during a call for heat.	This feature turns your system on before the **WAKE** programming time to ensure the enviroment is at the **WAKE** setpoint when the **WAKE** time period begins. This recovery changes over time based on the previous day's experience.	You can configure this thermostat to have a 7 day program, a 5+1+1 program or nonprogrammable.

LCD Will Show

90 / HE	44 / CO	°F / 74°	12H	GAS	OFF	5d

Adjustment Options

Heating Temperature Setpoint Limit	Cooling Temperature Setpoint Limit	°F or °C	12 or 24 Hour Clock	Fan Operation	Morning Recovery	Program Options
Use the ◁ or ▷ key to select the maximum heat setpoint.	Use the ◁ or ▷ key to select the minmum 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

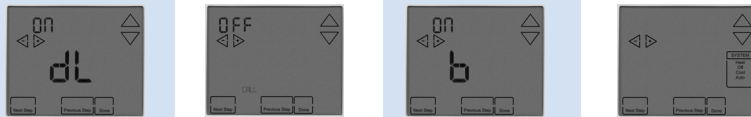| Heating Temperature Setpoint Limit	Cooling Temperature Setpoint Limit	°F or °C	12 or 24 Hour Clock	Fan Operation	Morning Recovery	Program Options
90 °F	44 °F	°F	12 Hour Clock	GAS	ON	5d

PRO1 Tip

The second stage will turn on at 2x the swing setting. The second stage will turn off when 1x the swing is reached. For example, if the swing setting is .8 degrees for heating and the thermostat is set at 70°F, the first stage will turn on at approximately 69.2°F. The second stage will turn on at 68.4°F. The second stage will turn off at 69.2°F and the first will turn off at 70.8°F.

Tech Setup Steps (Continued from the previous page)

Display Light	Contractor Call Number	Beep	System Switch
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. Select **ON** to use this feature then press **NEXT STEP**.	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

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.	Use the ◁ or ▷ key to move from one character to another. Use the △+ or ▽ key to change the flashing character to your desired number.	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.

Factory Default Settings

ON	OFF	ON	Heat - Off - Cool

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.
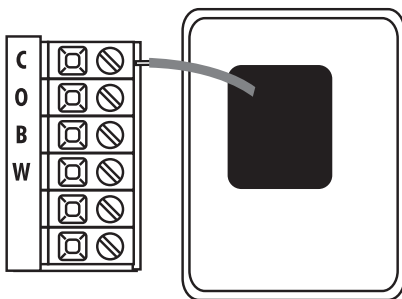
Mount Thermostat

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).

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 ⊲+ or ⊳– key below the time setting to select the current day of the week.

4. Press **NEXT STEP**

5. The current hour is flashing. Use the ⊲+ or ⊳– key below the time setting 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 STEP**

7. Minutes are now flashing. Use the ⊲+ or ⊳– key below the time setting to select current minutes.

8. Press **DONE** when completed

Programming

All programmable Pro1 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 nonprogrammable. There are four time periods for each program (**WAKE, LEAVE, RETURN, SLEEP**). This thermostat has a programmable fan feature, which allows you to run the fan continuously during any time period.

| 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 🚶🏠	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 🚶🏠	6 p.m.	70° F (21° C)	75° F (24° C)
	Sleep 🌙🏠	11 p.m.	62° F (17° C)	78° F (26° C)

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			
	Return			
	Sleep			
Saturday	Wake			
	Leave			
	Return			
	Sleep			
Sunday	Wake			
	Leave			
	Return			
	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 SCHEDULE** Note: Monday-Friday is displayed and the **WAKE** icon is shown. You are now programming the **WAKE** time period for the weekday setting.

4. Use the ⊲+ or ⊳– key below the time setting 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. Use the △+ or ▽ temperature setpoint keys on the right side of your screen to make your temperature selection for the weekday **WAKE** period.

6. Press **NEXT STEP**

7. Repeat steps 4 through 6 for weekday **LEAVE** time period, for weekday **RETURN** time period, and for weekday **SLEEP** time period.

Saturday:

8. Repeat steps 4 through 6 for Saturday **WAKE** time period, for Saturday **LEAVE** time period, for Saturday **RETURN** time period, and for Saturday **SLEEP** time period.

Sunday:

9. Repeat steps 4 through 6 for Sunday **WAKE** time period, for Sunday **LEAVE** time period, for Sunday **RETURN** time period, and for Sunday **SLEEP** time period.

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

4. Use the ⊲+ or ⊳- key below the time setting 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. Use the △+ or ▽ temperature setpoint keys on the right side of your screen to make your temperature selection for the weekday **WAKE** period.

6. Press **NEXT STEP**

7. Repeat steps 4 thru 6 for Monday **LEAVE** time period, for Monday **RETURN** time period, and for Monday **SLEEP** time period.

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

A Note About Auto Changeover:
Auto changeover will switch between heating and cooling as needed. It is very important to make sure the cooling setpoint temperature is at least 5° above the heating setpoint temperature and that the heating setpoint temperature is at least 5° below the cooling setpoint temperature.

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 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 0.4°F to 2.0°F
	Cooling is adjustable from 0.4°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	32° to +105° (0° to +41°C)
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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