PRŮ T725	Wall Locations	
PRU 1/25		
	The thermostat should be installed appr floor. Select an area with average tempe	oximately 4 to 5 feet above the arature and good air circulation.
Pro1 Technologies P.O. Box 3377 Springfield, MO 65808-3377		Do not install thermostat in locations:
Toll Free: 888-776-1427 Web: www.pro1iaq.com Hours of Operation: M-F 9AM - 6PM Eastern	NO NO YES	 Close to hot or cold air ducts That are in direct sunlight With an outside wall behind the thermostat
Thermostat Application GuidePower TypeDescriptionBattery Power		 In areas that do not require conditioning Where there are dead spots
Gas or Oil Heat Yes Hardwire (Common Wire)	TITI	or drafts
Electric Furnace Yes Hardwire (Common Wire) with		(in corners or behind doors)
Heat Pump (No Aux. or Emergency Heat) Yes Battery Backup	_ Installation Tip	Where there might be
Heat Pump (With Aux. or Emergency Heat) Yes Multi-Stage Systems		concealed chimneys or
Tes tochnician must install this	Pick an installation location that is easy for	(pipes)
Heat Only Systems fes product	the user to access. The temperature of the	
Heat Only Systems - Floor of Wall Furnace fes	location should be representative of the	
Cool Only Systems Yes Carefully read these Millivolt Conventional Systems Yes Instructions. You could damage	building.	
	l Cananig.	
Two Transformer SystemsNoThis product or cause a hazardous condition if you fail to follow these instructions.	Subbase Installation	
Installation Tips 2-3		
Thermostat Quick Reference 4-5 (Una version en español de est	🗋 🛈 Horizontal Mount 🦳 🦷	Installation Tip:
Wiring 6 manual se puede descargar e	🚡 🛛 🕲 Vertical Mount 👘 🖉	Electrical Hazard
Wiring Diagrams 7 la pagina web de la compañia		ure to disconnect the power before
Features & About The Badge 8	(-)	ginning to install this product can
Technician Setup 9-12		ise electrical shock or equipment
Programming Thermostat 13-16		nage.
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) Swing (cycle rate or differential) Heating is adjustable from 0.2° to 2.0° Cooling is adjustable from 0.2° to 2.0°		Mercury Notice
Power source		of our products are mercury free. wever, if the product you are
for hardwire Battery power from 2 AA Alkaline batteries	repl it pu	lacing contains mercury, dispose of roperly. Your local waste
Operating ambient	For vertical mount put one screw on the top inst	nagement authority can give you tructions on recycling and proper posal.
®U.S. Registered Trademark. Patents pending	For horizontal mount put one screw on the	
Copyright © 2017 All Rights Reserved. Rev. 17	left and one screw on the right	2
Installation Tips	Thermostat Quick Reference	

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.



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

door.

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.



Zuick Keler

Getting to know your thermostat



1 LCD Display

(2) Glow in the dark light button

- (**3**) Fan Switch
- (4) System Switch
- (5) Easy change battery door

(6) Temperature Setpoint Buttons

Thermostat Quick Reference

Getting to know your thermostat



- (1) Indicates the current room temperature
- (2) Time and day of the week
- (3) Low Battery Indicator: Replace batteries when this indicator is shown.
- (4) Button Options
- (5) Program Time Periods: This thermostat has 4 programmable time periods per day.
- 6 System Operation Indicators: The COOL ON, HEAT ON or S icon will display when the COOL, HEAT, or S (fan) is on. Note: The Compressor delay feature is active if these are flashing.
- (7) Hold is displayed when the thermostat program is permanently overridden.
- (8) Setpoint: Displays the user selectable setpoint temperature.
- (9) **Stages:** Indicates the stages of heat that are active.

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 setpoints will change to 55°F (Heating) and 85°F (Cooling). If the user adjusts the setpoint away from either of these, it will hold for 4 hours then return to either 55°F or 85°F. After day 63 the batteries must be replaced immediately to avoid freezing or overheating because the thermostat will shut the unit off until the batteries are changed.

Tech Settings

5

Technician Setup Menu

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

- 1. Press the **MENU** button
- Press and hold TECH SET button for 3 seconds. This 3 second 2. 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 the **DONE** key when you want to exit the Technician Setup options.

Tech Setting	gs	LCD Will Show	Adjustment Options	Default
Filter Change Reminder	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.	IOD SE Next Step Prev Step	You can adjust the filter change reminder from OFF to 2000 hours of runtime in 50 hour increments.Tap the second button from the top left side of the thermostat to display the current filter elapsed runtime.	OFF
Room Temperature Calibration	This feature allows the installer to change the calibration of the room temperature display. For example, if the thermostat reads 70° degrees and you would like it to read 72° then select +2.	Next Step Prev Step	You can adjust the room temperature display to read 4° above or below the factory calibrated reading.	0
Compressor Short Cycle Delay	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.	Next Step Prev Step	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 delay.	ON

Swing Setting Tip

Temperature swing, sometimes called differential 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.

Wiring

Caution: **Electrical Hazard**

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

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.
- Loosen the terminal block screws. Insert wires then retighten terminal block screws.
- 3. Place nonflammable insulation into wall opening to prevent drafts.

Terminal Designations







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

Installation Tip

Do not overtighten terminal

damage the terminal block.

A damaged terminal block

from fitting on the subbase

Max Torque = 6in-lbs.

can keep the thermostat

correctly or cause system

operation issues.

block screws, as this can

(6)

Wiring Diagrams

1 Power supply

 $\sqrt{2}$ Use either O or B terminals for changeover valve.

 $\sqrt{3}$ Optional 24 VAC common connection when thermostat is used in battery power mode.

4 Factory-supplied jumper

2H/1C Heat Pump System - Factory Default Setting



Typical 2H/1C Heat Pump System with separate emergency heat



Conventional System 1H/1C, 2H/1C (Heat pump set to "OFF" in tech settings)



Tech Settings

	iech s	beilings			
Tech Settings			LCD Will Show	Default	
	Pro Recovery	This feature will start heating and cooling early to bring the building temperature to its programmed setpoint by the begining of the WAKE or RETURN time period.	Next Step Prev Step	Use the 🛨 and 🖃 key to turn ON or OFF.	ON
	Program Options	You can configure this thermostat to have 7 Day, 5+1+1 program- ming or non programmable.	Profile Next Step Scolor Prev Step	Use the 🛨 and 🖃 key to se- lect 7d for 7 Day, 5d for 5+1+1, or 0d for non programmable.	5d
	Heat Pump	When set to ON this thermostat will operate a heat pump system (default). If set to OFF this thermostat will operate a conventional system, and the next tech step will not appear.	Next Step Prev Step	ON - Configured to operate heat pump system. OFF - Configured to operate conventional system See page 6 for terminal designations.	ON
	Dual Fuel Auxiliary for Heat Pump Will only appear if Heat pump setting is turned ON.	For Dual Fuel applications (Gas/ Fossil fuel Auxiliary Heat), turn this setting ON to LOCKOUT the Heat Pump (Y) when Auxiliary Heat (W2) is on. If desired-This can also be used with Electric Auxiliary.	Next Step Prev Step	OFF Will allow Y(1st stage of Heat) and W2 (Aux Heat) to run together if called for. ON Will de-energize Y terminal 45 seconds after a call for Auxiliary Heat (W2).	OFF

Features & Private Label Badge

Temporary and Permanent Hold Feature (If using programming)

When cool or heat is turned on, the thermostat will display **HOLD** and **RUN SCHED** on the left of your screen when you press the + or - button.

Temporary Hold: At this time if you do nothing, the temperature will remain at this setpoint temporarily until next time period.

Permanent Hold: If you press the **HOLD** key on the left of your screen, you will see **HOLD** appear below the setpoint temperature in the display. The thermostat will now permanently stay at this setpoint and can be adjusted using the + or - keys.

To Return to Running Schedule: Press the **RUN SCHED** button on the left of your screen to exit either temporary or permanent hold.

Filter Change Reminder

If your installing contractor has configured the thermostat to remind you when the air filter needs to be changed, you will see **FILT** in the display when your air filter needs to be changed.

Resetting the filter change reminder: When **FILT** reminder is displayed, you should change your air filter and reset the reminder by holding down the second button from the top left side of the thermostat for 3 seconds.

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.**

Tech Settings

Tech Settin	ngs	LCD Will Show	Adjustment Options	Default
Fan Operation	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.	Next Step Prev Step	EL - Electric for thermostat control GS- Gas for system control	EL
Emergency Heat Stages	This feature controls the number of stages in Emergency Heat mode. It only appears if the Technician Setup Step for HEAT PUMP is ON.	Next Step Prev Step	Use the 🛨 or 🖃 key to select 1-stage or 2-stage operation.	1
Satisfy Setpoint	This feature allows the thermostat to keep multiple stages of heat energized until setpoint is satisfied.	Next Step 55 Prev Step	Use the 🛨 or 🖃 key to turn ON or OFF.	OFF
Staging Delay	This feature allows a delay to occur when a second stage is needed. This allows the previous stage extra time to satisfy setpoint.	Next Step Prev Step	Use the 🛨 or 🖃 key to select OFF, 5, 10, 15, 30, 45, 60, or 90 minutes.	OFF

(8)

Programming Set Time (If using programming) 1. With system switch set to OFF, press the MENU button 2. Press SET TIME 3. Day of the week will be flashing. Use the + or l kev to select the current day of the week. 4. Press NEXT STEP 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 STEP

- 7. Minutes are now flashing. Use the + or key to select current minutes.
- 8. Press DONE 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 15.

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)	
	Wake	6 AM	70°F (21°C)	75°F (24°C)	
Weekdey	Leave	8 AM	62°F (17°C)	83°F (28°C)	
Weekday	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)	
Caturday	Leave	8 AM	62°F (17°C)	83°F (28°C)	
Saturday	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)	
Cunday	Leave	8 AM	62°F (17°C)	83°F (28°C)	
Sunday	Return	6 PM	70°F (21°C)	75°F (24°C)	
	Sleep	10 PM	62°F (17°C)	78°F (26°C)	

Programming

Set Program Schedule 5+1+1 or 7 Day

To customize your program schedule, follow these steps:

- Select **HEAT** or **COOL** with the system switch. **Note:** You have to program heat and cool each seperately. 1.
- 2. Press the MENU button (If menu does not appear first press RUN SCHED)
- 3. Press SET SCHED. Note: Monday-Friday or (Monday if in 7 Day) is displayed and the WAKE icon is shown. You are now programming the wake time period for that day.
- **4.** Time is flashing. Use the **+** or **-** key to make your time selection for that day's **WAKE** time period.
- 5. Press NEXT STEP
- 6. The setpoint temperature is flashing. Use the + or key to make your setpoint selection for that day's WAKE time period.
- 7. Press NEXT STEP
- 8. Repeat steps 4 thru 7 for that day's LEAVE time period, RETURN time period, and SLEEP time period.

Programming

Set Program Schedule 5+1+1 or 7 Day (Continue...)

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

You can also use these time saving functions. You must be in Set Sched Programming Mode (Press Menu >> Press Set Sched) for the following functions to work:

1) To copy ALL time periods and temperatures of current system and day to ALL days, Press and Hold 2nd button down on left until the Days and Time flash.

2) To copy ALL time periods (only times) for ALL days to the opposite system (Heat to Cool / Cool to Heat), Press and hold the Glow in the Dark Light button down until Set Time and Time flash.

Saturday:

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

Sunday:

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

11