Installation Manual

Pro1 Technologies
P.O. Box 3377
Springfield, MO 65808-3377
Toll Free: 888-776-1427
Web: www.pro1iaq.com
Hours of Operation: M-F 9AM - 6PM Eastern

T725

InstallationTips

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.

Table of Contents

Installation Tips
Thermostat Quick Reference
Wiring
Wiring Diagrams
Features & About The Badge
Technician Setup
Programming Thermostat

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˚
Power source ...........................................18 to 30 VAC, NEC Class II, 50/60 Hz for hardwire
Battery power from 2 AA Alkaline batteries
Operating ambient............................... 32˚F to +105˚F (0˚C to +41˚C)
Operating humidity .............................. 90% non-condensing maximum
Dimensions of thermostat ................. 4.7"W x 4.4"H x 0.8"D

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 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.

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 icon will display when the COOL, HEAT, or icon is on.

Note: The Compressor delay feature is active if these are flashing.

Hold is displayed when the thermostat program is permanently overridden.
Setpoint: Displays the user selectable setpoint temperature.
Stages: Indicates the stages of heat that are active.

6

Tech Settings

This thermostat has a technician setup menu for easy installer configuration. To set up the thermostat for your particular application:
1. Press the button.
2. Press and hold the 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 key to move from one step to another. Note: Only press the key when you want to exit the Technician Setup options.

Tech Settings

<table>
<thead>
<tr>
<th>Feature</th>
<th>LCD Will Show</th>
<th>Adjustment Options</th>
<th>Default</th>
</tr>
</thead>
<tbody>
<tr>
<td>Filter Change Reminder</td>
<td></td>
<td></td>
<td>OFF</td>
</tr>
<tr>
<td>Room Temperature Calibration</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Compressor Short Cycle Delay</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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.

THERMOSTAT QUICK REFERENCE

WIRING

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 icon will display when the COOL, HEAT, or icon is on.

Note: The Compressor delay feature is active if these are flashing.

Hold is displayed when the thermostat program is permanently overridden.
Setpoint: Displays the user selectable setpoint temperature.
Stages: Indicates the stages of heat that are active.

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 35˚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.

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 35˚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.

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 35˚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.

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 35˚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.

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 35˚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.

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 35˚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.

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 35˚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.

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 35˚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.

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 35˚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.

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 35˚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.

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 35˚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.

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 35˚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.

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 35˚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.
Wiring Diagrams

Power supply
Use either O or B terminals for changeover valve.
Optional 24 VAC common connection when thermostat is in battery power mode.
Factory-supplied jumper

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

Note: in many systems with no emergency heat relay a jumper can be used between E and W2.

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

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

Note: This thermostat is only compatible with ONE transformer system.

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

<table>
<thead>
<tr>
<th>Tech Settings</th>
<th>LCD Will Show</th>
<th>Adjustment Options</th>
<th>Default</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pro Recovery</td>
<td></td>
<td>Next Step</td>
<td></td>
</tr>
<tr>
<td>Program Options</td>
<td></td>
<td>Next Step</td>
<td></td>
</tr>
<tr>
<td>Heat Pump</td>
<td></td>
<td>Next Step</td>
<td></td>
</tr>
<tr>
<td>Dual Fuel Auxiliary for Heat Pump</td>
<td></td>
<td>Next Step</td>
<td></td>
</tr>
</tbody>
</table>

Tech Settings

<table>
<thead>
<tr>
<th>Tech Settings</th>
<th>LCD Will Show</th>
<th>Adjustment Options</th>
<th>Default</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fan Operation</td>
<td></td>
<td>Next Step</td>
<td></td>
</tr>
<tr>
<td>Emergency Heat Stages</td>
<td></td>
<td>Next Step</td>
<td></td>
</tr>
<tr>
<td>Satisfy Setpoint</td>
<td></td>
<td>Next Step</td>
<td></td>
</tr>
<tr>
<td>Staging Delay</td>
<td></td>
<td>Next Step</td>
<td></td>
</tr>
</tbody>
</table>

About the Badge

The badge should pry off easily.

DONOT USE FORCE.
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 $-$ key 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

Set Program Schedule 5+1+1 or 7 Day

To customize your program schedule, follow these steps:

1. Select HEAT or COOL with the system switch. Note: You have to program heat and cool each separately.
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.

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.

Programming

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.

Programming

Factory Default Program

<table>
<thead>
<tr>
<th>Day of the Week</th>
<th>Events</th>
<th>Time</th>
<th>Setpoint Temperature (HEAT)</th>
<th>Setpoint Temperature (COOL)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Weekday</td>
<td>Wake</td>
<td>6 AM</td>
<td>70°F (21°C)</td>
<td>75°F (24°C)</td>
</tr>
<tr>
<td></td>
<td>Leave</td>
<td>8 AM</td>
<td>62°F (17°C)</td>
<td>83°F (28°C)</td>
</tr>
<tr>
<td></td>
<td>Return</td>
<td>6 PM</td>
<td>70°F (21°C)</td>
<td>75°F (24°C)</td>
</tr>
<tr>
<td></td>
<td>Sleep</td>
<td>10 PM</td>
<td>62°F (17°C)</td>
<td>75°F (24°C)</td>
</tr>
<tr>
<td>Saturday</td>
<td>Wake</td>
<td>6 AM</td>
<td>70°F (21°C)</td>
<td>75°F (24°C)</td>
</tr>
<tr>
<td></td>
<td>Leave</td>
<td>8 AM</td>
<td>62°F (17°C)</td>
<td>83°F (28°C)</td>
</tr>
<tr>
<td></td>
<td>Return</td>
<td>6 PM</td>
<td>70°F (21°C)</td>
<td>75°F (24°C)</td>
</tr>
<tr>
<td></td>
<td>Sleep</td>
<td>10 PM</td>
<td>62°F (17°C)</td>
<td>75°F (24°C)</td>
</tr>
<tr>
<td>Sunday</td>
<td>Wake</td>
<td>6 AM</td>
<td>70°F (21°C)</td>
<td>75°F (24°C)</td>
</tr>
<tr>
<td></td>
<td>Leave</td>
<td>8 AM</td>
<td>62°F (17°C)</td>
<td>83°F (28°C)</td>
</tr>
<tr>
<td></td>
<td>Return</td>
<td>6 PM</td>
<td>70°F (21°C)</td>
<td>75°F (24°C)</td>
</tr>
<tr>
<td></td>
<td>Sleep</td>
<td>10 PM</td>
<td>62°F (17°C)</td>
<td>75°F (24°C)</td>
</tr>
</tbody>
</table>