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PRO1 IAQ T855

PRO1 IAQ T855 Universal Programmable Thermostat User Manual

Model: T855 (2 Heat / 2 Cool Single Stage)

INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of your PRO1 IAQ T855 Universal Programmable 7 Day Single Stage Thermostat. The T855 is designed to offer reliable temperature control for your heating and cooling systems, featuring programmable settings for energy efficiency and comfort. Please read this manual thoroughly before installation and use to ensure proper functionality and safety.

SAFETY INFORMATION

- Always turn off power to the heating/cooling system at the main fuse or circuit breaker panel before installing or servicing the thermostat.
- This thermostat operates on low voltage (24 Volts). Do not connect it to line voltage (120V/240V) systems.
- All wiring must conform to local electrical codes and ordinances.
- Do not short (jumper) across terminals on the gas valve or at the system to test. This will damage the thermostat and void the warranty.
- Ensure all connections are secure to prevent electrical shorts or loose wiring.

PACKAGE CONTENTS

Verify that your package contains the following items:

- PRO1 IAQ T855 Thermostat Unit
- Batteries (for backup power)
- Wiring Accessories (screws, wall anchors)
- User Manual (this document)

SETUP AND INSTALLATION

1. Mounting Location

The T855 thermostat is designed for wall mount installation. Choose a location on an inside wall, approximately 5

feet (1.5 meters) above the floor, away from drafts, direct sunlight, and heat-emitting appliances. Avoid locations near windows, doors, or air vents.

2. Wiring Instructions

The T855 is a wired thermostat operating on 24 Volts. It supports 2 Heat / 2 Cool single-stage systems. Follow these general wiring steps:

1. Turn off power to your HVAC system at the circuit breaker.
2. Remove your old thermostat. Take a picture of the wiring connections for reference.
3. Label each wire with the corresponding terminal letter from your old thermostat.
4. Mount the T855 thermostat base plate to the wall using the provided screws and anchors.
5. Connect the labeled wires to the appropriate terminals on the T855 base plate. Refer to the wiring diagram provided with the thermostat for specific connections for your system type (e.g., conventional, heat pump).
6. Ensure all wire connections are tight and secure.
7. Snap the thermostat unit onto the base plate.

3. Initial Power-Up and Configuration

After installation, restore power to your HVAC system. The thermostat will power on using either the electric connection or the installed batteries. Follow the on-screen prompts for initial setup, which may include setting the current time and day. The thermostat features a digital display with a backlight for easy viewing.

OPERATING INSTRUCTIONS

1. Understanding the Display



Figure 1: T855 Thermostat Display and Controls

This image shows the front of the PRO1 IAQ T855 thermostat. The main feature is a large, blue backlit digital display. In the upper left, the current time '10:03 AM' is visible. The large central numbers indicate the current room temperature, '74°F'. To the right of the current temperature, 'Set At' is displayed above the target temperature, also '74'. Below the time, a small fan icon is shown next to the word 'Leave', indicating the fan setting. At the bottom of the display, 'Menu', 'On', and 'Cool' are visible, indicating operational modes and settings. On the right side of the thermostat body, there are two physical push buttons: a '+' button at the top and a '-' button below it, used for adjusting settings. The PRO1 logo is subtly visible at the bottom center of the thermostat body.

The T855 features a clear digital display that shows important information at a glance:

- **Current Time:** Displays the current time of day.
- **Current Temperature:** Shows the ambient temperature in the room.
- **Set Temperature:** Indicates the desired temperature the thermostat is programmed to maintain.
- **System Mode:** Displays the current operating mode (e.g., Cool, Heat, Off).
- **Fan Mode:** Shows the fan operation setting (e.g., Auto, On).
- **Indicators:** Other icons or text may appear for programming, battery status, or system alerts.

2. Basic Operation

The thermostat is controlled via push buttons. The '+' and '-' buttons on the right side are used to adjust the set temperature or navigate menu options.

- **Adjusting Temperature:** Press the '+' or '-' button to increase or decrease the desired set temperature. The

'Set At' value on the display will change accordingly.

- **Changing System Mode:** Use the 'Menu' button (if present, or a dedicated 'Mode' button) to cycle through available system modes such as Heat, Cool, Auto, or Off.
- **Changing Fan Mode:** Use the 'On' button (if present, or a dedicated 'Fan' button) to select between 'Auto' (fan runs only when heating/cooling) or 'On' (fan runs continuously).

3. Programming 7-Day Schedule

The T855 is a 7-day programmable thermostat, allowing you to set different temperature schedules for each day of the week. This feature helps optimize energy usage and comfort.

1. Access the programming menu (typically by pressing a 'Menu' or 'Program' button).
2. Select the day of the week you wish to program.
3. Set the desired temperature and time periods (e.g., Wake, Leave, Return, Sleep) for that day using the '+' and '-' buttons.
4. Repeat for each day of the week or copy settings from one day to another.
5. Save and exit the programming menu.

Refer to the detailed programming section in the full manual for advanced scheduling options and specific button sequences.

4. Advanced Connectivity (BACnet MS/TP)

The T855 supports BACnet MS/TP connectivity protocol, allowing for integration into building management systems. This feature enables advanced control and monitoring capabilities, potentially including remote control via an app, depending on the building system's configuration. Consult with your HVAC professional or building management system administrator for details on utilizing this functionality.

MAINTENANCE

- **Battery Replacement:** The thermostat uses batteries for backup power. Replace them annually or when a low battery indicator appears on the display. Use fresh alkaline batteries of the specified type.
- **Cleaning:** Clean the thermostat's exterior with a soft, damp cloth. Do not use abrasive cleaners or solvents. Ensure no liquid enters the thermostat's internal components.
- **Air Filter:** Regularly check and replace your system's air filter as recommended by your HVAC system manufacturer. A dirty filter can restrict airflow and reduce system efficiency.

TROUBLESHOOTING

Problem	Possible Cause	Solution
Thermostat display is blank.	No power, dead batteries.	Check circuit breaker. Replace batteries.
System not heating/cooling.	Incorrect mode, set temperature too high/low, power issue.	Ensure thermostat is in Heat/Cool mode. Adjust set temperature. Check system power.
Temperature reading seems inaccurate.	Thermostat location, drafts.	Ensure thermostat is not exposed to direct sunlight, drafts, or heat sources.

Problem	Possible Cause	Solution
Fan runs continuously.	Fan mode set to 'On'.	Change fan mode to 'Auto'.

If you encounter issues not listed here or if troubleshooting steps do not resolve the problem, contact a qualified HVAC technician or PRO1 IAQ customer support.

SPECIFICATIONS

- **Model:** T855
- **Brand:** PRO1 IAQ
- **Product Dimensions:** 1.12"D x 4.68"W x 4.37"H
- **Controller Type:** Push Button
- **Special Feature:** Low Voltage
- **Color:** White
- **Temperature Control Type:** Programmable (7 Day)
- **Connectivity Technology:** Wired
- **Included Components:** Battery, Wiring Accessories, Thermostat Unit
- **Power Source:** Electric (24 Volts)
- **Shape:** Rectangular
- **Display Type:** Digital, Manual
- **Screen Size:** 6.5 Inches
- **Control Type:** Button Control
- **Control Method:** App (via BACnet MS/TP integration)
- **Connectivity Protocol:** BACnet MS/TP
- **Mounting Type:** Wall Mount
- **Backlight:** Yes
- **UPC:** 384929210154
- **Item Weight:** 12 ounces

WARRANTY AND SUPPORT

For warranty information, please refer to the documentation included with your purchase or contact your retailer or PRO1 IAQ directly. For technical support or further assistance, please visit the PRO1 IAQ official website or contact their customer service department.