**SmartAir T-200 Smart Thermostat User Manual**

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**1. Introduction**

Congratulations on purchasing the **SmartAir T-200 Smart Thermostat**, a next-generation climate control system designed to make your home more comfortable and energy-efficient. This user manual will guide you through installation, setup, and everyday use.

**Audience**: Homeowners or HVAC professionals with basic electrical knowledge.

**Prerequisites**: Familiarity with standard HVAC systems and an active Wi-Fi network.

**2. Safety and Warnings**

1. **Electrical Hazard**: Installation involves electrical wiring. Always turn off power at the circuit breaker before handling thermostat wires.
2. **Professional Installation** (Recommended): If you’re uncertain about any steps, consult a certified HVAC technician.
3. **Voltage Compatibility**: Ensure your system’s voltage is compatible with the T-200 (24V AC typical for North American HVAC systems).
4. **Prevent Water Damage**: Avoid mounting in areas prone to condensation or direct water contact.
5. **Stay Updated**: Periodically check the official SmartAir website ([www.smartair.com/support](http://www.smartair.com/support)) for firmware updates and technical bulletins.

**3. Product Overview**

The T-200 is a touchscreen-enabled, Wi-Fi-connected thermostat capable of learning your temperature preferences and adjusting heating/cooling schedules accordingly. The integrated mobile app offers remote control and energy usage insights.

**3.1 Front Panel**

* **Touchscreen Display**: Provides temperature readings, settings, schedules, and notifications.
* **LED Indicator**: Glows green for heating, blue for cooling, and white for standby.
* **Proximity Sensor**: Wakes the screen when someone approaches.

**3.2 Technical Specifications**

* **Power Supply**: 24V AC (C-wire required)
* **Display**: 4.3-inch LCD touchscreen
* **Wi-Fi**: 2.4 GHz (802.11 b/g/n)
* **Operating Temperature Range**: 32°F to 104°F (0°C to 40°C)
* **Compatibility**: Gas, oil, electric, forced air, heat pump, and radiant HVAC systems
* **Certifications**: FCC, UL, CE

**4. Installation**

**4.1 Tools and Requirements**

* **Tools**: Phillips screwdriver, drill (optional), level, wire stripper
* **Supplies**: Mounting screws, wall anchors (included in the box), and a C-wire for power

**4.2 Wiring Diagrams**

The SmartAir T-200 supports a variety of HVAC configurations. Common wire terminals include:

* **R** or **Rh/Rc**: Power from the heating/cooling system
* **C**: Common wire providing continuous 24V AC power
* **Y**: Cooling control
* **W**: Heating control
* **G**: Fan control

**Important**: A dedicated **C-wire** is required to power the T-200’s Wi-Fi functionality. If your system lacks a C-wire, consider hiring a professional or using a C-wire adapter kit.

**4.3 Mounting the Thermostat**

1. **Turn Off Power**: At the circuit breaker or HVAC system switch.
2. **Remove Old Thermostat**: Label existing wires before disconnecting.
3. **Attach Mounting Plate**: Use the included screws. Make sure the plate is level.
4. **Connect Wires**: Match each labeled wire to the corresponding terminal. Use the included wire labels if needed.
5. **Snap On T-200**: Gently align the pins and press until the thermostat clicks into place.
6. **Restore Power**: Turn the circuit breaker back on.

**5. Initial Setup and Configuration**

**5.1 Connecting to Wi-Fi**

1. **Power Up**: The T-200 will boot up and display a “Welcome” screen.
2. **Select Wi-Fi Network**: Tap **Settings** > **Wi-Fi**. Choose your home network.
3. **Enter Password**: Type in your network’s password. Once connected, a Wi-Fi icon appears on the home screen.

**5.2 Pairing with the Mobile App**

1. **Download the App**: Install the *SmartAir Home* app from the App Store (iOS) or Google Play (Android).
2. **Create an Account**: Launch the app and follow the on-screen instructions.
3. **Add Device**: Tap the *+* icon and select **T-200 Thermostat**. Follow the pairing wizard.
4. **Confirmation**: A success message appears once pairing is complete.

**5.3 Setting Temperature Schedules**

1. **Access Schedule Menu**: From the thermostat’s home screen, tap **Schedules**.
2. **Create New Schedule**: Choose days of the week (e.g., weekdays vs. weekends) and desired temperature ranges.
3. **Save**: The T-200 automatically adjusts heating/cooling based on the schedule.

**Tip**: You can also manage schedules from the mobile app for easier typing and remote adjustments.

**6. Using the SmartAir T-200**

**6.1 Navigating the Menus**

* **Home Screen**: Displays current temperature, setpoint, and system status (Heating/Cooling).
* **Menu Button**: Tap the gear icon to access **Settings**, **Schedules**, **System Info**, etc.
* **Swipe Gestures** (Optional): Swipe left/right to quickly switch between advanced menus.

**6.2 Adjusting Temperature**

1. **Manual Override**: On the home screen, tap the **+** or **-** icon to raise or lower temperature.
2. **Hold Function**: If you need a temporary change, enable **Hold** to override schedules for a specified duration.
3. **Resume Schedule**: Disable **Hold** or tap **Resume** to return to your preset schedule.

**6.3 Energy-Saving Mode**

* **Eco Setting**: Activates a preset, energy-efficient temperature range.
* **Auto-Away**: Uses the proximity sensor and mobile app geolocation to reduce heating/cooling when no one is home.

**Note**: Energy usage statistics can be viewed in the mobile app under **Reports**.

**7. Troubleshooting**

1. **Thermostat Not Powering On**
   * Ensure the **C-wire** is properly connected.
   * Check the circuit breaker and HVAC system power switch.
2. **Wi-Fi Connection Fails**
   * Verify your router’s 2.4 GHz band is enabled.
   * Check for router password typos.
   * Reduce distance or interference between thermostat and router.
3. **Incorrect Temperature Reading**
   * Check for drafts or direct sunlight hitting the thermostat.
   * Recalibrate in **Settings** > **Sensor Calibration**.
4. **Heating/Cooling Not Activating**
   * Confirm correct wiring for **Y** (cooling) and **W** (heating) terminals.
   * Test system by selecting **Test Equipment** in the **System Info** menu.
5. **App Not Updating Temperature**
   * Confirm your phone’s internet access is stable.
   * Log out and back in to refresh the connection.

**8. Maintenance and Care**

* **Clean Display**: Wipe gently with a soft, lint-free cloth. Avoid harsh chemicals.
* **Firmware Updates**: Check **Settings** > **About** > **Firmware** on the thermostat or enable auto-updates in the mobile app.
* **Annual HVAC Check**: For optimal performance, schedule routine HVAC maintenance.

**9. Specifications and Compliance**

* **FCC Compliance**: This device complies with Part 15 of the FCC rules.
* **Operating Temperature**: 32°F–104°F (0°C–40°C)
* **Storage Temperature**: -4°F–122°F (-20°C–50°C)
* **Wi-Fi Protocol**: 2.4 GHz, WPA2 encryption
* **Materials**: Flame-retardant ABS plastic

For a complete list of compliance certifications, visit [www.smartair.com/compliance](https://www.smartair.com/compliance).

**10. Warranty and Support**

* **Limited Warranty**: 2 years from the date of purchase against manufacturing defects.
* **Extended Warranty** (Optional): Additional 1-year coverage available at registration.
* **Customer Support**:
  + **Phone**: 1-800-555-THERMO (Mon-Fri, 9am–5pm CST)
  + **Email**: [support@smartair.com](mailto:support@smartair.com)
  + **Live Chat**: Visit [www.smartair.com](http://www.smartair.com/) for 24/7 chat support.

**Return Policy**: Purchases made via authorized retailers follow their respective return/refund policies. Have your receipt and device serial number ready when contacting support.

**Final Notes**

Thank you for choosing the **SmartAir T-200 Smart Thermostat** to help control your home’s climate efficiently. Regular firmware updates and proper maintenance will ensure your device continues performing at its best. If you have any questions not covered in this manual, consult our online resources or reach out to our support team.

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