

Uponor 1086974

Uponor Smatrix Base T-145 Wired Room Thermostat User Manual

1. PRODUCT OVERVIEW

The Uponor Smatrix Base T-145 is a wired digital room thermostat designed for precise temperature control in heating and cooling systems, particularly underfloor heating. It directly transmits measured values to the Smatrix Base X-145 control module, ensuring efficient and responsive climate management. This thermostat features a clear digital display for easy temperature adjustment and monitoring.



Image 1.1: Front view of the Uponor Smatrix Base T-145 Wired Room Thermostat, showing its square white casing and central rotary dial for temperature adjustment. The 'Uponor' logo is visible at the bottom left.

2. KEY FEATURES

- **Digital Temperature Setting:** Allows precise adjustment of the desired room temperature.
- **Software Version Display:** Shows the software version upon startup.
- **Backlit Screen:** The display illuminates for 10 seconds after activation for improved visibility.
- **Heating/Cooling Indicator:** Clearly displays the current operating mode.
- **Setback Function:** Enables energy-saving temperature reduction during unoccupied periods.

- **Setback Temperature Display:** Shows the active setback temperature.
- **Temperature Unit Selection:** Switch between Celsius and Fahrenheit.
- **Battery Status Display:** Indicates the status of any internal backup battery or connected sensor batteries.
- **Flexible Sensor Options:** Supports room temperature (RT), floor sensor with max/min limits (FT), remote sensor (FS), and outdoor sensor (RO) inputs.
- **Individual Room Cooling:** Capable of managing cooling functions on a room-by-room basis.

3. TECHNICAL SPECIFICATIONS

Brand	Uponor
Model Number	1086974
Color	White (RAL 9016)
Dimensions (H x W x D)	80 x 80 x 26.5 mm
Item Weight	120 grams
Power Supply	4-wire bus (Wired)
Voltage	24 Volts
Connectivity Technology	Wired
Protection Class	IP 30
Compliance	CE
Controller Type	Manual Control
Temperature Control Type	Digital
Specific Uses	Underfloor Heating
Included Components	Room thermostat and mounting hardware

4. SAFETY INFORMATION

Please read and understand all safety instructions before installing or operating this device. Failure to follow these instructions may result in electric shock, fire, or property damage.

- **Electrical Safety:** Installation must be performed by a qualified electrician in accordance with local electrical codes and regulations. Ensure power is disconnected at the main circuit breaker before any wiring work.
- **Environmental Conditions:** Do not expose the thermostat to direct water spray, excessive humidity, or extreme temperatures outside its operating range. The device has an IP30 protection rating, meaning it is protected against solid objects over 2.5mm but not against water.
- **Intended Use:** This thermostat is designed for controlling heating and cooling systems. Do not use it for purposes other than its intended function.
- **Cleaning:** Use a soft, dry cloth for cleaning. Do not use abrasive cleaners or solvents.

5. INSTALLATION AND SETUP

The Uponor Smatrix Base T-145 thermostat is a wired device requiring connection to an Uponor Smatrix Base X-145 control module via a 4-wire bus system. Professional installation is recommended.

5.1 Mounting

1. **Power Disconnection:** Ensure the main power supply to the heating/cooling system is turned off at the circuit breaker before beginning installation.
2. **Location Selection:** Choose an indoor location on an interior wall, away from direct sunlight, drafts, and heat sources (e.g., lamps, appliances) that could affect temperature readings. Mount at a standard thermostat height (approximately 1.5 meters from the floor).
3. **Wiring:** Connect the 4-wire bus cable from the Smatrix Base X-145 control module to the designated terminals on the T-145 thermostat. Refer to the wiring diagram provided with the Smatrix Base X-145 control module for specific terminal assignments.
4. **Secure Mounting:** Use the provided mounting hardware to securely attach the thermostat to the wall.

5.2 Initial Setup

1. **Power On:** Restore power to the system at the circuit breaker. The thermostat display should illuminate.
2. **Software Version Check:** Upon initial power-up, the software version will briefly display.
3. **Temperature Unit:** If necessary, adjust the temperature unit between Celsius and Fahrenheit according to the operating instructions in Section 6.
4. **Sensor Configuration:** If using optional floor, remote, or outdoor sensors, ensure they are correctly connected and configured within the Smatrix Base X-145 control module. The thermostat can display readings from these sensors.

6. OPERATION

The Uponor Smatrix Base T-145 thermostat provides straightforward control over your room's temperature.

6.1 Setting the Temperature

- Rotate the central dial clockwise to increase the desired temperature.
- Rotate the central dial counter-clockwise to decrease the desired temperature.
- The digital display will show the set temperature. The backlight will activate for 10 seconds after adjustment.

6.2 Display Information

- **Current Temperature:** The main display shows the current room temperature.
- **Set Temperature:** Briefly displayed when adjusting the dial.
- **Operating Mode:** An icon or text indicates if the system is currently heating or cooling.
- **Setback Indicator:** If the setback function is active, an indicator will show, along with the setback temperature.
- **Battery Status:** Displays the status of any internal backup battery or connected sensor batteries.

6.3 Changing Temperature Units (Celsius/Fahrenheit)

Specific instructions for changing temperature units are typically found in the main Smatrix Base X-145 control module manual or accessed via a combination of button presses on the thermostat. Consult the comprehensive system manual for detailed steps.

7. MAINTENANCE

The Uponor Smatrix Base T-145 thermostat requires minimal maintenance to ensure optimal performance.

- **Cleaning:** Periodically wipe the thermostat's exterior with a soft, dry, or slightly damp cloth. Do not use harsh chemicals, abrasive cleaners, or excessive moisture.
- **Sensor Check:** If using external sensors (floor, remote, outdoor), ensure they are free from obstructions and debris that could affect their readings.
- **System Check:** Regularly check the overall heating/cooling system for proper operation as per the Smatrix Base X-145 control module manual.

8. TROUBLESHOOTING

If you encounter issues with your Uponor Smatrix Base T-145 thermostat, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Display is blank or unresponsive.	No power to the thermostat or control module.	Check the main power supply and circuit breaker. Ensure the 4-wire bus connection is secure.
Incorrect temperature reading.	Thermostat location affected by drafts, direct sunlight, or heat sources.	Relocate the thermostat if possible, or shield it from interfering elements. Ensure no external sensors are faulty or obstructed.
Heating/Cooling system not responding.	Communication issue with Smatrix Base X-145 control module or system fault.	Verify the 4-wire bus connection. Check the Smatrix Base X-145 control module for error indicators. Consult the Smatrix Base X-145 manual for system-level troubleshooting.
Setback function not working as expected.	Incorrect configuration in the Smatrix Base X-145 control module.	Review the setback schedule and settings within the Smatrix Base X-145 control module.

If the problem persists after attempting these solutions, contact Uponor customer support or a qualified HVAC technician.

9. WARRANTY AND SUPPORT




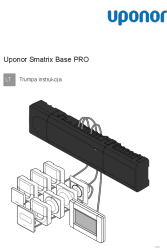
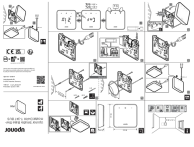

For warranty information, technical support, or service inquiries regarding your Uponor Smatrix Base T-145 Wired Room Thermostat, please refer to the documentation included with your complete Uponor Smatrix system or visit the official Uponor website. Keep your proof of purchase for warranty claims.

Manufacturer: Uponor

Model Number: 1086974

ASIN: B077CLZPJ8

Related Documents - 1086974

 <p>Uponor Smatrix Technische Informationen</p>	<p><u>Uponor Smatrix: Intelligent Heating and Cooling Control System Technical Guide</u></p> <p>Explore the Uponor Smatrix system, a smart and modular solution for intelligent room control of heating and cooling, offering enhanced comfort, energy efficiency, and remote management via mobile app.</p>
 <p>Uponor Smatrix Technische Informationen</p>	<p><u>Uponor Smatrix: Technische Informationen für Heiz- und Kühlsysteme</u></p> <p>Umfassende technische Informationen zur Uponor Smatrix Produktreihe, einem integrierten Regelungssystem für Flächenheizung und -kühlung, das Energieeffizienz, Komfort und intelligente Steuerung für Wohn- und Gewerbegebäude bietet.</p>
 <p>Uponor Smatrix Technical information</p>	<p><u>Uponor Smatrix Technical Information: Intelligent HVAC Control Systems</u></p> <p>Detailed technical information on the Uponor Smatrix system, an integrated solution for intelligent heating and cooling control. Learn about its features, components, and application examples for optimal building climate management and energy efficiency.</p>
 <p>Uponor Smatrix Base PRO Trumpa instrukcija</p>	<p><u>Uponor Smatrix Base PRO Trumpa Instrukcija</u></p> <p>Trumpa instrukcija Uponor Smatrix Base PRO sistemai, apimanti saugos nurodymus, sistemos aprašymą, montavimą, komponentų prijungimą ir techninius duomenis.</p>
 <p>Uponor Smatrix Base Thermostat D+RH T-247 BUS Installation and Operation Guide</p>	<p><u>Uponor Smatrix Base Thermostat D+RH T-247 BUS Installation and Operation Guide</u></p> <p>This document provides installation and operational instructions for the Uponor Smatrix Base Thermostat D+RH T-247 BUS, a smart heating control system. It covers mounting, wiring, and basic settings for optimal room climate control.</p>
 <p>Uponor Smatrix Wave thermostat D+RH T-267 Operation manual</p>	<p><u>Uponor Smatrix Wave Thermostat D+RH T-267 Operation Manual</u></p> <p>Comprehensive operation manual for the Uponor Smatrix Wave thermostat D+RH T-267, covering installation, features, settings, troubleshooting, and technical specifications for optimal climate control.</p>