



vtech T961NN50 E-Smart Thermostat Installation Guide

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Important safety instructions

The applied nameplate is located at the bottom or rear of the product.

When using your thermostat equipment, basic safety precautions should always be followed to reduce the risk of fire, electric shock and injury, including the following:

1. This product should be installed by a qualified technician.
2. Read and understand all instructions.
3. Follow all warnings and instructions marked on the product.
4. Do not use liquid or aerosol cleaners. Use a damp cloth for cleaning.
5. Do not expose the product to liquid or install this in wet areas such as bathroom, near a sink, near a swimming pool, or in a damp basement.
6. Do not install this product on an unstable surface.
7. This product should not be installed near or over a radiator or heat register, or in any area where proper ventilation is not provided.
8. This product should be operated only from the type of power source indicated on the marking label.
9. To reduce the risk of electric shock, do not disassemble this product. Opening or removing parts of the thermostat may expose you to dangerous voltages or other risks. Incorrect reassembling can cause electric shock.
10. Remove this product and refer servicing to an authorized service facility under the following conditions:
 1. **a.** If liquid has spilled onto the product.
 2. **b.** If the product has been exposed to rain or water.
 3. **c.** If the product does not operate normally by following the operating instructions. Adjust only controls covered by the operation instructions.
 4. **d.** If the product has been dropped resulting in physical damage.
 5. **e.** If the product exhibits a distinct change in performance.
11. Avoid using the thermostat during an electrical storm to avoid the remote risk of electric shock.
12. The thermostat should be mounted at a height of less than 6 feet.



CAUTION:

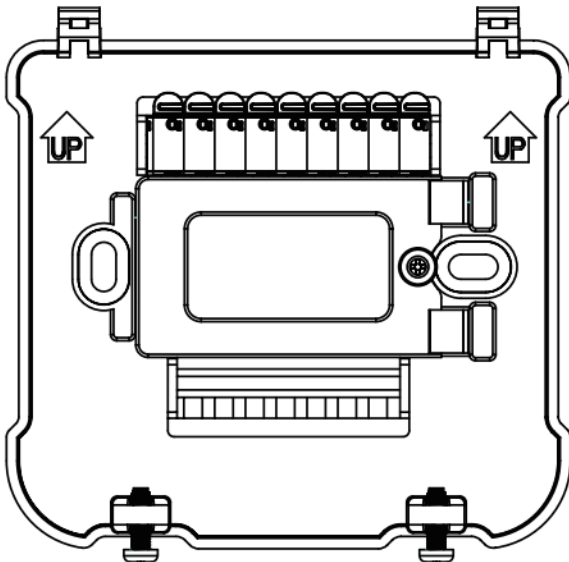
Keep small metallic objects such as pins and staples away from the thermostat.

In the box

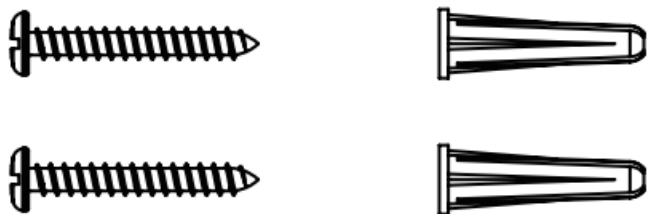
- Thermostat



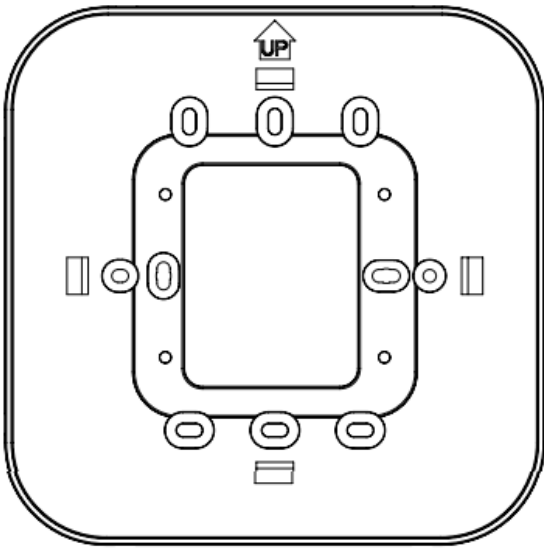
- Wall plate



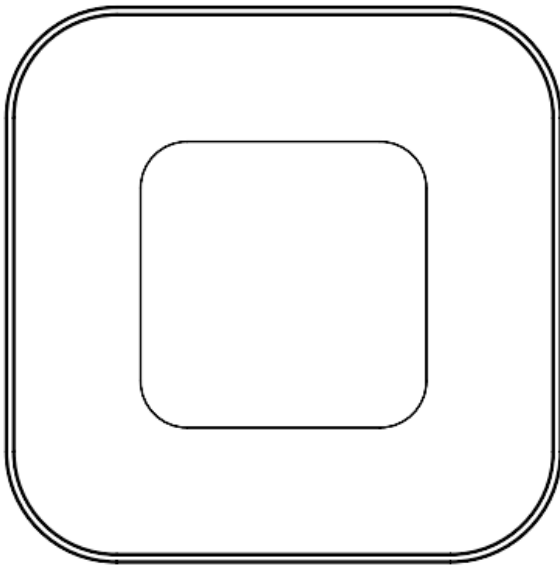
- Wall mount screws & Anchors



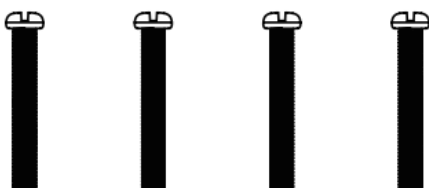
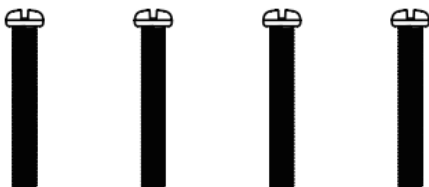
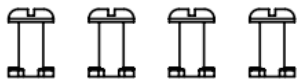
- Universal deco plate



- Deco plate cover



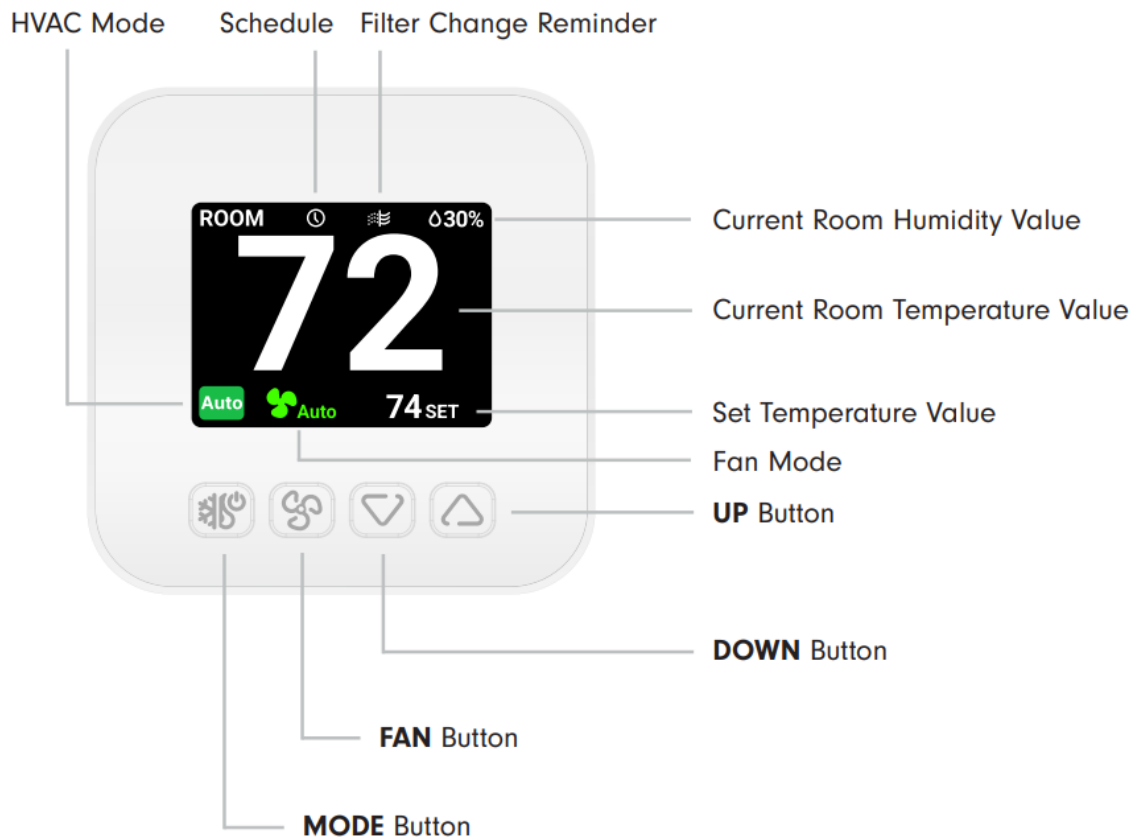
- T locks & junction box screws



Required tools and supplies for installation

- Screwdriver set
- Drill
- Drill bit (3/16" for drywall, 7/32" for plaster)
- Pencil
- Level (optional)

Thermostat layout

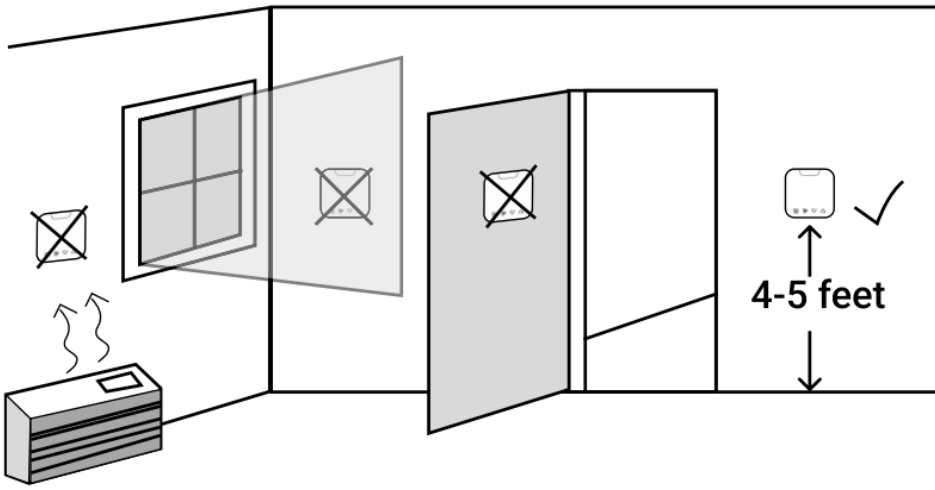


NOTE

- HVAC stands for Heating, Ventilation, and Air Conditioning.
- Only when the humidity, schedule and filter change reminder features are enabled via the EC Tool Pro app, can the current room humidity, schedule, and filter change reminder be displayed on the screen.

Important things to know before installation

- This product should be installed by a qualified technician.
- Carefully read these instructions. You could damage this product or cause a hazardous condition if you fail to follow these instructions.
- Electrical Hazard Caution: Turn OFF power to your HVAC system before installation. Failure to disconnect the power before beginning to install this product can cause electrical shock or equipment damage.
- Do not over-tighten the screws during mounting.



The thermostat should be mounted

- approximately 4 – 5 feet above the floor.
- a central location with average temperature and humidity.
- on an interior wall that is easily accessible.
- in a location with good air circulation.

The thermostat should NOT be mounted

- where it is exposed to direct sunlight.
- to a wall that contains concealed chimneys or pipes.
- where there is obstructed air flow such as in corners or behind doors.
- directly above or below an hot or cold air ducts.
- on an exterior wall.



WARNING

- **INGESTION HAZARD:** This product contains a button cell or coin battery.
- **DEATH** or serious injury can occur if ingested.
- A swallowed button cell or coin battery can cause Internal Chemical **Burns** in as little as **2 hours**.
- **KEEP** new and used batteries **OUT OF REACH of CHILDREN**
- **Seek immediate medical attention** if a battery is suspected to be swallowed or inserted inside any part of the body.
- The product contains **Non-replaceable batteries**.
Compatible battery type CR 1220. Nominal battery voltage 3V.



CAUTIONS

- The factory installed clock backup battery is not replaceable and rechargeable. There may be a risk of explosion if a wrong type of clock backup battery is used. Use only the factory installed non-replaceable battery (Compatible battery type CR 1220, Nominal battery voltage 3 V) and do NOT recharge the battery.
- Even used batteries may cause severe injury or death.
- Do not force discharge, recharge, disassemble, heat above 212°F (100°C) or incinerate. Doing so may result in injury due to venting, leakage or explosion resulting in chemical burns.
- Call a local poison control centre for treatment information.
- Remove and immediately recycle or dispose of used batteries according to local regulations and keep away from children. Do NOT dispose of batteries in household trash or incinerate.
- Battery must be removed from the thermostat before it is scrapped.
- Thermostat must be disconnected from the supply mains when removing the battery.
- Battery is to be disposed of safely.

Installation process

1. Power off your HVAC system

Disconnecting the power protects you and avoids damage. After disconnecting, adjust the set temperature to confirm the system is off.

2. Carefully remove the cover from your old thermostat

3. Verify system compatibility

Inspect the wire connections to verify system compatibility.

CAUTION: The T961 is compatible with low-voltage (24V), single transformer systems only. If you inspect and find any of the following, then the T961 is not compatible with your system. 1) Labels on the wiring or old thermostat warning of High Voltage, 120V, or 240V connections. 2) Thick electrical wires that are connected using wire nuts. 3) If your old thermostat supports RC and RH terminals that are wired separately (not connected via jumper wire) If you have any enquiries about system compatibility, email support@vtechhotelp hones.com.

4. Remove jumper wires (if any)

Jumper wires are short wires between two connectors. You won't need them.

5. Take a photo of the wires while connected to your old thermostat

Take a photo of wire color/terminals that you can refer to later. You may also consider labelling the wires to match the terminals (R, C, G, Y, W, etc...).

6. Disconnect wires from old thermostat

Carefully disconnect the wiring from the old thermostat. Once removed, wrap the wire bundle around a pencil to prevent them from falling back into wall.

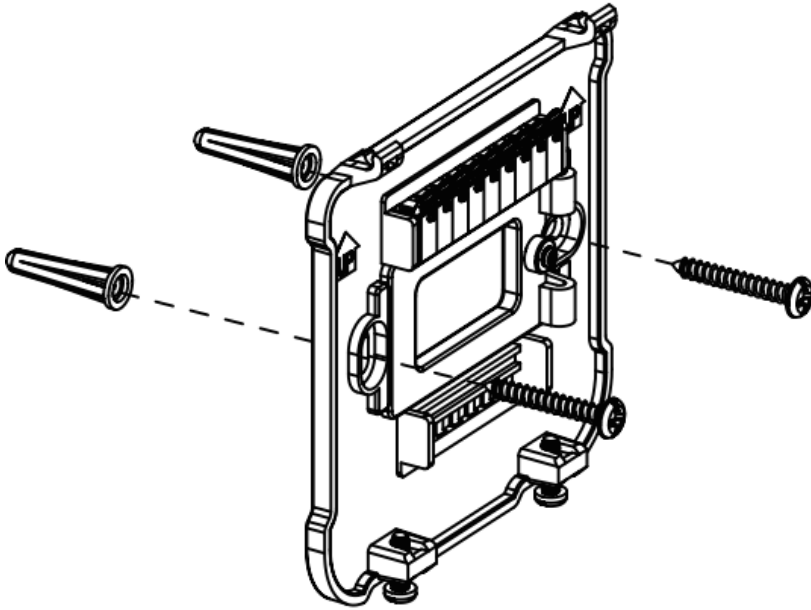
Mounting Option 1: Direct Wall Mounting

7. Mark the screw positions for the wall plate

Hold the wall plate up to the wall where you want the thermostat to be mounted. Make sure that the wire bundle aligns near the centre of the wall plate. Verify the plate is level with a bubble level then mark the screw positions through the screw holes in the wall plate.

8. Attach the wall plate

Using your marks as reference, drill 2 holes and install the provided wall anchors. Route the wires through the opening in the center of the wall plate, then secure it to the wall with the provided screws. The slots in the wall plate will help to compensate for any minor misalignment.



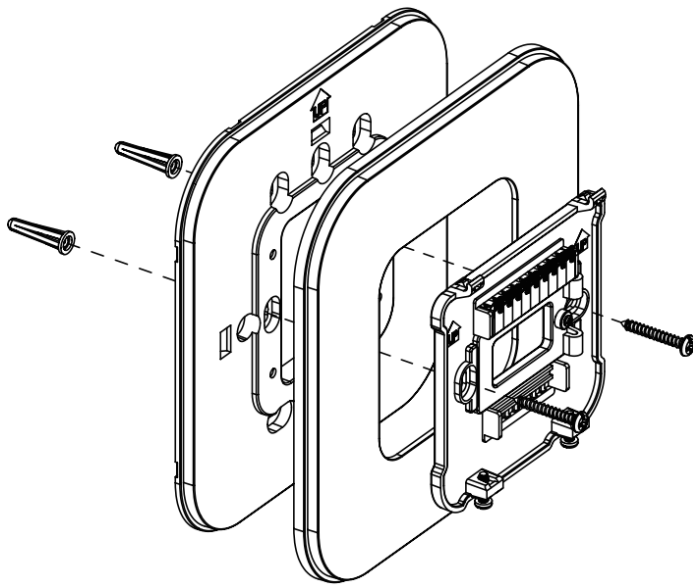
Mounting Option 2: Direct Wall Mounting with Deco Plate Kit

1. Mark the screw positions for the deco plate

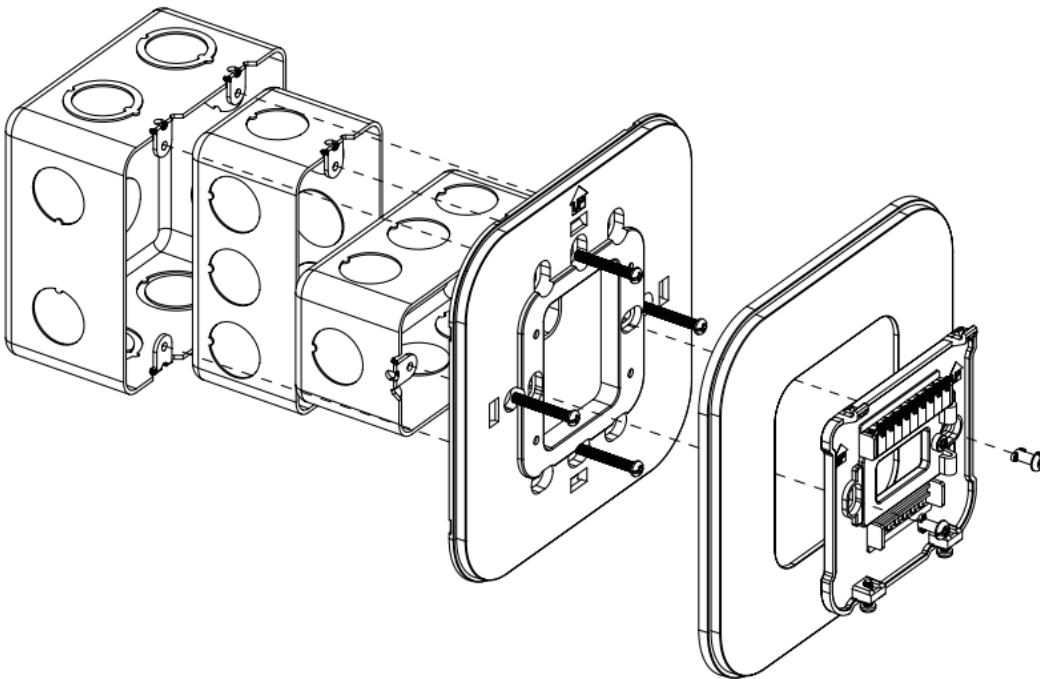
Hold the deco plate up to the wall where you want the thermostat to be mounted. Make sure that the wire bundle aligns near the centre of the deco plate. Verify the plate is level with a bubble level then mark the screw positions through the screw holes in the deco plate.

2. Attach the deco plate and wall plate

1. Push the cover towards the deco plate until it clicks into place.
2. Using your marks as reference, drill 2 holes and install the provided wall anchors. Route the wires through the opening in the center of the deco plate, then the wall plate.
3. Align the screw holes and secure them to the wall with the provided screws. The slots in the wall plate will help to compensate for any minor misalignment.



Mounting Option 3: Junction Box Mounting with Deco Plate Kit



1. Attach the deco plate and the wall plate

1. Attach the deco plate to the junction box with the provided junction box screws.
2. Push the cover towards the deco plate until it clicks into place.
3. Attach the wall plate to the deco plate with the provided T locks.
4. Route the wires in the junction box through the openings in the centres of the deco plate and the wall plate.

2. Connect wires to the wall plate

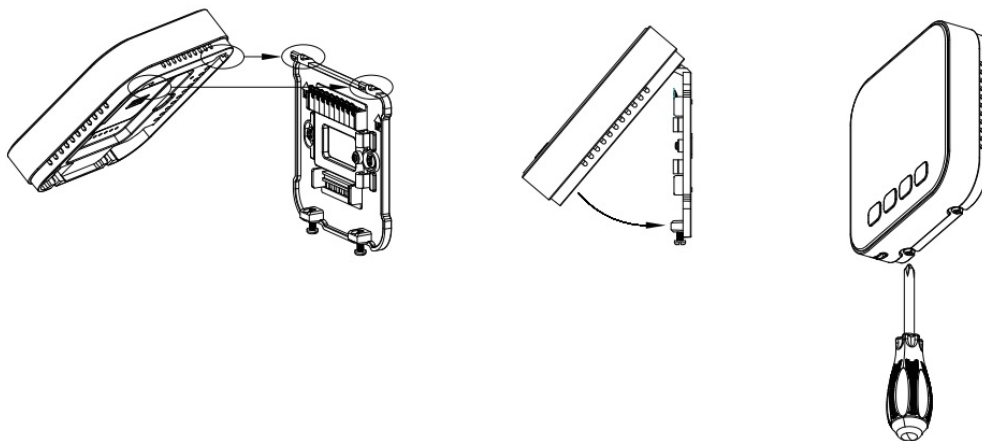
To wire the wall plate, refer to the wiring guide displayed in the system profile that you created for your HVAC system using the EC Tool Pro App or the T961NN50 Wiring Guide.

Once all wires are securely connected, press the wires down to ensure they are flush with the wall plate.

3. Attach the thermostat

Swing the thermostat into position by engaging the lugs at the top of the wall plate before pushing it carefully home into its plug-in terminal block.

Lock the thermostat into place by tightening the 2 Phillips screws located on the bottom edge of the thermostat.



4. Switch the power back on

Turn on power to your HVAC system. When the thermostat powers up, verify functionality.

FCC and IC regulations

FCC Caution

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

IMPORTANT NOTE

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help

FCC Radiation Exposure Statement

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator& your body.

ISED/C Warning

This device complies with Innovation, Science, and Economic Development Canada license exempt RSS standard(s). Operation is subject to the following two conditions:

(1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

The device is compliance with RF exposure guidelines, users can obtain Canadian information on RF exposure

and compliance. The minimum distance from body to use the device is 20cm.

Maintenance

Taking care of your thermostat

Your thermostat contains sophisticated electronic parts, so it must be treated with care.

Avoid rough treatment

Place the thermostat and handset down gently. Save the original packing materials to protect your thermostat if you ever need to ship it.

Avoid water

Your thermostat can be damaged if it gets wet. Do not use the thermostat outdoors in the rain, or handle it with wet hands. Do not install thermostat near a sink, bathtub or display.

Electrical storms

Electrical storms can sometimes cause power surges harmful to electronic equipment. For your own safety, take caution when using electrical appliances during storms.


Cleaning your thermostat

Your thermostat has a durable plastic casing that should retain its luster for many years. Clean it only with a soft cloth slightly dampened.

Technical specifications



Documents / Resources

	<p>vtech T961NN50 E-Smart Thermostat [pdf] Installation Guide T961NN50, T961NN50 E-Smart Thermostat, E-Smart Thermostat, Thermostat</p>
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References

- [User Manual](#)

[Manuals+](#), [Privacy Policy](#)

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