

heating or cooling system is not recommended. Do not test

When testing the existing system or the new Smart Thermostat do not run the cooling system when it is cold

Please wait for mild temperatures before testing the

You must follow all local codes and ordinances for wiring

outside as this may harm the compressor.

Smart Thermostat

Installation Guide

ADC-T25

2.

3.

5.

6.

7. 8.

13.

This thermostat should only be powered by 4 AA alkaline batteries or a listed Class 2 power supply at 24 VAC (C-Wire or wall transformer) An amperage higher than 1 amp to each thermostat terminal may cause damage to the thermostat. Verify that the system is 24 VAC. If the old system is labeled as 120 V or 240 V or has wire nuts, the system is high voltage. Do NOT install this thermostat on a high voltage system. Contact a local HVAC professional for help.

Before installing the Smart Thermostat or servicing the

HVAC equipment, turn off power to the system. In the box

Trim plate 2 Wall Plate

the system this way.

cooling system.

the system.

3 Thermostat Orywall anchors (2)

- 5 Wall screws (2) 6 AA Batteries (4)
- 6
- **Recommended Tools**
- 1 Power drill 3/16" (#13) drill bit

2 Needle nose pliers

Phillips screwdriver

3 Pencil to mark mounting location

Thermostat Overview

1 Menu ≡: Enter menu 2 Select >: Select/confirm menu item 3 Current Mode Ambient Temperature 5 Target Temperature UP: Adjust target temperature up / Navigate menu

🕡 Down: Adjust target temperature down / Navigate menu

Emergency: For use with heat pumps only. Will bypass the heat pump and enable auxiliary/emergency heat.

Installation Considerations

If replacing an existing thermostat, the new Smart

If a new location is desired it will be necessary to move the wiring. New installations and relocations should follow the accompanying guidelines to ensure the most accurate

Mount on an inside wall, approximately 5 ft. (1.5 m) above

Damp areas will not only affect the humidity reading but could lead to corrosion and shorten the lifespan of

Install in a location with good air circulation. Stagnant air will not accurately reflect the rate of temperature change

 If you will add the Smart Thermostat to a Z-Wave network, power on the controller and verify it is communicating.

If the Z-Wave network supports SmartStart, use MobileTech to scan the QR code found on the Thermostat or the box.

Avoid areas that are exposed to large temperature variances, such as: direct sunlight, near an AC unit, above or below auxiliary heat and air vents, and drafts from windows or exterior doors. Be aware of what is on the other side of the wall where the installation is occurring. Do not install on walls adjacent to unheated rooms, stoves, or housing hot water pipes. Exterior walls are also not ideal

Thermostat can be mounted in its place.

temperature reading and ease of use.

the floor in a frequently used room.

Heat: Will activate the heating system. Cool: Will activate the air conditioner. Auto: Will select either the Heat or Cool

Off: the system will not heat or cool

mode automatically.

Location

in the room. Avoid areas behind open doors, corners, and alcoves. Wait until construction and painting are finished

before installing. **Preparation**

the thermostat

locations for installation.

- 2 Test the existing system. Verify that the heating and/or cooling system is operating properly before you try to install the new Smart Thermostat.
- CAUTION: Do not test the system by shorting electric terminals. Do not test the cooling system if it is cold outside, as this may harm the compressor. 3 Turn off power to the HVAC unit.
- Turn all heating and cooling systems off. This can be done at the circuit breaker. CAUTION: Do not remove the existing thermostat until power has been turned off at the circuit breaker.

Remove the existing thermostat.

disconnect the wires yet.

existing thermostat.

Remove the cover from the existing thermostat. Do not

Make sure the wires are identified correctly. If you have an unidentified wire, it may be necessary to identify where the wire connects to the heating or air conditioning equipment. CAUTION: Wiring can vary for each manufacturer. Identify all wiring designations before removing it from the

Take a picture of the wires before you detach them from the

After all wires are identified and a picture has been taken, disconnect all the wires and remove the existing thermostat. Remember to secure the wires so they do not fall into

existing thermostat for future reference.

Thermostat Installation

1 Level and mount the backplate to the wall with

Insert wires into their designated terminals. See table

If you have RH and RC, remove the black jumper in the top-right corner of the backplate. See the graphic

If you have extra wires, do not install them in the new thermostat. Please contact your local HVAC professional

Z can be used for the following options: W2, Y2, H, DH, O/B

umper

Jumper Off

5 Prep wires (if needed) Ensure the wires are a proper gauge between 16-24 AWG (1.3 - 0.5 mm)Make sure wires have exposed straight ends of the appropriate length.

supplied hardware.

If you have R, connect to RC

for details.

for details.

Zoning or Ventilation

for additional assistance

the wall.

- CAUTION: Do NOT insert more than one wire to a terminal.

3 Add batteries to the Thermostat (4x AA)

5 Connect the Thermostat to the Back Plate

the HVAC system

connected wires.

Setup

during setup:

Radiators: Fossil If unsure: Unsure

the fan during a heating cycle. Forced air heating: Electric Radiant floor heating: Fossil

Fossil/electric baseboard heating: Fossil

type is appropriate for your system.

terminal, you must specify its function.

Second stage of heat or aux Second stage of cool or heat pump

Ventilation (HRV, VRV, air baffle)

Humidifier

Dehumidifier

the room is starting to warm up.

the room is starting to cool down.

Press any button to wake up the thermostat

Changing the mode and setpoint

2 After waking, the display will show the current mode and ambient temperature. Setpoint is only in Heat/Cool mode.

The display will turn off after 10 seconds to conserve energy. The thermostat will continue to operate while the

The modes are Heat, Cool, Auto, Emer and Off. Emer mode is available for Heat Pump systems.

active and blue when cooling is active.

Using and Changing

When in Emer mode, the display will read EMER when the

In Auto, the active setpoint is indicated by the operating state above the ambient temperature. The buttons on the display will also be illuminated to indicate the active setpoint. The LEDs will be illuminated red when heating is

If the thermostat batteries are low, replace the batteries

Remove the thermostat from the Wall Plate by pulling the

Insert the new batteries following the specified polarity

Return the thermostat to the Wall Plate by pressing the thermostat body firmly into the back plate mounted to the wall. Ensure that the pins on the body are correctly aligned with the back plate. Failure to do so could cause damage

Always replace the batteries as soon as you have low battery levels, indicated by a Low Battery warning flashing on the thermostat. If the batteries drain, the thermostat could leave the HVAC system on or off, overheating or

Always replace the batteries at least once a year. This will protect the thermostat from damage and corrosion by

The thermostat can adjust the humidity level in your home by directly controlling an external humidifier, dehumidifier, or by using the cooling system to dehumidify. For an external humidifier or dehumidifier, the thermostat must be configured to use the Z terminal. For controlling dehumidification by the cooling system, a cooling system must be present without an external dehumidifier. In this case, the thermostat will extend your cooling cycles to reach your dehumidification setpoint. To change humidification/dehumidification settings refer to the

The thermostat can control a ventilation system (HRV, VRV, or air baffle) using the Z terminal. By default, the

· Change the setpoint to 2

current setpoint and wait

5 minutes, at which point

the system should turn on · If this does not work, contact your local HVAC professional.

degrees beyond the

· Try switching the O/B configuration setting

account.

for help.

through your online

· If this does not fix the

problem, contact your local HVAC professional

•Refer to the Z-Wave

controller's documentation

on removing devices from the network

·Select the Settings Icon

·Select Network, and select Add/Remove

Check wiring against the

ensure all wires are fully inserted into the Back Plate

the problem persists

professional for help.

meets the minimum

•Press the Menu

·Select Installer

·Select Wiring

·Select Reconfia

Ensure batteries are

Do not use Lithium

batteries with the Smart Thermostat

If the problem persists, contact your local HVAC

professional for help.

properly installed. Always use fresh alkaline batteries

requirements and re-configure your Smart Thermostat

contact your local HVAC

Ensure your wiring setup

provided Terminal Guide and

wire terminals. Re-configure your Smart Thermostat. If

·Select Installer

thermostat straight out and off the wall.

Operation

display is off.

1 Press the Menu≡button 2 Select > Mode menu item 3 Select > desired mode

thermostat wakes up.

the Batteries

with four new AA batteries.

2 Take out the existing batteries.

markings on the thermostat.

Battery Advisory

to the thermostat.

freezing the home.

Customer Website.

Ventilation

thermostat configuration.

After all wires are in their final locations, restore power to

6 Follow the on-screen setup instructions to configure the thermostat and connect it to a Z-Wave network. The Smart Thermostat will automatically detect

Follow the on-screen instructions to complete the

CAUTION: If the thermostat screen does not show all the connected wires, remove the thermostat from the wall and verify that all wires are properly connected. If issues persist, there may be a problem with automatically detecting your wiring. See invalid wiring in the Troubleshooting section.

Depending on the system type and configuration, the thermostat may request the following information

Backup Heat Type: Tells the thermostat what type of auxiliary/backup heating the heat pump uses.

Dual Fuel: Some heat pumps use a fossil furnace (for example, natural gas, oil, or propane) for backup heating. If unsure: The system will automatically detect which heat

Z-Terminal: A "dynamic" terminal that can be used for a variety of different system functions. If using the Z

Note: Z uses the RC power and W2 is not available in a dual power system configuration where the RC-RH jumper is removed. Accessories powered by the transformer connected

If the Smart Thermostat will control a heating system, test the heating system by changing the mode to $\ensuremath{\mathsf{HEAT}}$ and adjusting the setpoint to be higher than the current room temperature. Verify the heating system turns on and that

If the Smart Thermostat will control a cooling system, test the cooling system by changing the mode to COOL and adjusting the setpoint to be lower than the current room temperature. Verify the cooling system turns on and that

Electric: This is the most common type of backup heating.

Heat Type: Tells the thermostat whether it should turn on

to RH will not operate if the RC-RH jumper is removed. W2: H: EX: Test the System CAUTION: Do not test the cool mode during cold weather. Wait for mild weather to fully test the system. After successfully installing and setting up your new Smart Thermostat, please test the Smart Thermostat and HVAC system.

- leaking batteries. If the home is unoccupied for a month or more, such as with vacation homes, you should replace the batteries as a preventive measure against battery failure while you are away. Always use new batteries as replacements. **Humidity Control**
- **Troubleshooting** Problem Cause Heating or cooling To prevent damaging the does not turn on compressor, the Thermostat when the setpoint inserts a delay when cycling

the compressor. This delay is

only a few minutes long.

I cannot select my Fuel Type during wiring setup. How do I reconfigure My wiring has changed and I

need to re-configure

during setup and want to start again.

The thermostat may be

systems common wire or

batteries are low or not

installed, the thermostat will notify the user when it is

The user is encouraged to

install batteries even when running with a common wire. This allows the thermostat to still communicate with the Z-Wave controller when the HVAC system has lost power. The thermostat is capable of reporting these power losses and other issues.

turned on.

batteries. If the thermostat

powered by the HVAC

the thermostat.

I made a wirina

- My Smart Thermostat says my wiring is invalid.
- thermostat will operate the ventilation system for 15 minutes every hour. To change the ventilation settings, refer to the advanced configuration settings through the Customer Website or Mobile App. If the settings are not available, please contact your service provider. **Additional Configuration** Although the default settings will be appropriate in most cases, you also have the option to change all configuration settings via the Display. Open the Settings menu and proceed to the relevant settings. CAUTION: Be careful when changing advanced configuration settings. These configuration settings should only be changed by those familiar with heating and cooling system parameters. Contact your local HVAC professional for help.
- Some heat pumps use the pump appear to heat O terminal, while others use when it should be the B terminal for their reversing valve. Your heat cooling, or cooling pump may be the opposite when it should be heating? type from how your thermostat is wired. How do I add/delete the thermostat from the Z-Wave network?
- The wiring setup on your Smart Thermostat cannot be confirmed if any of the following is true: ·No wires detected ·No RC wire detected ·Y detected without G •O/B detected without Y The Fuel Type can only be configured if a W wire
- Why does my heat
- is above or below the room temperature.

- my Smart Thermostat?

- I see "Low Battery" even after a recent battery replacement for my Smart Thermostat.