

Installation Guide ADC-T40K-HQ

Smart Thermostat HQ

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- system and leave power off until installation is complete. Do not short the electric terminals at the control board on the heating or cooling system. Do not test the cooling system if it is cold outside.
- Follow all local codes and ordinances for wiring the HVAC system. It is recommended to use 18 AWG thermostat wire with the Smart Thermostat HQ.
- The Smart Thermostat HQ should only be powered by a listed Class 2 power supply at 24 VAC.
- A current higher than 1 amp to each thermostat terminal may cause damage to the thermostat.

Before installing the Smart Thermostat HQ turn off power to the HVAC

- for help.
- The Smart Thermostat HQ can only be installed on 24 VAC systems. Do NOT install on a high voltage system. Contact a local HVAC professional
- Questions?
- Visit answers.alarm.com or contact your service provider.
- In the box
- Trim plate 2 Thermostat 3 Display
 - Drywall anchors x2 Wall screws x2
- Recommended tools for installation Phillips screwdriver Pencil to mark mounting location 3 Power drill - 3/16" (#13) drill bit • Needle nose pliers

Thermostat Status LED 2 Button

User interface overview

a) Find all additional settings here.

Current setpoint

5 Indoor temperature

6 Current mode

6 Camera

Display 3 Settings menu

a) To change the setpoint, tap on the up or down arrow.

a) To change the mode, tap on the current mode icon.

- 3

Installation considerations

RH and C wires.

to starting setup.

Power Plate accessory kit.

construction installations.

General guidelines

a frequently used room with good airflow.

drafts from windows or exterior doors.

turned off at the circuit breaker.

Remove the existing thermostat.

thermostat terminals.

2

The Smart Thermostat HQ requires 24 VAC power between

It is suggested to make an account for the Smart Thermostat HQ prior

 If replacing an existing thermostat the new Smart Thermostat HQ can be mounted in its place if there is a C-Wire present. If no C-Wire is present, Display Sync may be used for installation, which requires the

Refer to an HVAC professional for correct thermostat location in new

Mount on an interior wall, approximately 5 ft. (1.5 m) above the floor in

Do not install in areas near warm appliances such as televisions, lamps, or dryers; in areas with direct sunlight, near an AC unit or hot water pipes, near a stove, above or below heat sources and air vents, or in

Be aware of what is on the other side of the wall where the thermostat

0 48%

16° 5

is installed. Do not install on an exterior wall or in-front of unconditioned rooms. Avoid damp areas which can affect the humidity reading and can lead to corrosion and shorten the lifespan of the device. Avoid areas behind open doors, corners, and alcoves. Wait until construction and painting are finished before installing. **Preparation Steps** Test the heating and/or cooling system with the existing thermostat. a) CAUTION: Do not test the system by shorting electric terminals. b) CAUTION: Do not test the cooling system if it is cold outside. 2 Turn off power to the HVAC unit at the circuit breaker.

CAUTION: Do not remove the existing thermostat until power has been

3 Take a picture of the wires while they are connected to the existing

a) IMPORTANT: Make sure the existing wires are correctly identified.

- Thermostat installation Install the trim plate if needed to cover holes/marks on the wall.

2 Level and mount the Thermostat to the wall with the supplied hardware

Insert the wires into their designated wire terminals. See the following

a) IMPORTANT: RH is a required wire to power the thermostat. If there is

CAUTION: Do not insert more than one wire into a single wire terminal.

If necessary drill holes with a 3/16" (#13) drill bit and tap in the

drywall anchors.

table for details.

Terminal

W2

Z1

Z2

Y2

Do not jump RH and RC.

only a single R wire, insert it into RH.

Description Cooling power Heating power -Required to power on

Heat/aux stage 2 Heat/aux stage 1

dehumidifier, vent

dehumidifier, vent Cool/pump stage 1

Cool/pump stage 2

Common wire from transformer for RH - Required to power on

Configurable: W3, humidifier,

Configurable: W3, humidifier,

Heat pump reversing valve (Energized in COOL mode) Heat pump reversing valve (Energized in HEAT mode) *Required wire After all wires are inserted restore power to the HVAC system. 5 The Status LED will indicate the Thermostat has power. a) If the Status LED is off the Thermostat does not have 24 VAC power. Make sure there is 24 VAC between RH and C. See additional troubleshooting below for more information.

Display installation

display or the box prior to starting. Onnect the Display to the Thermostat.

Note: For ease of setup make an account for the

2 The Display will power on after being mounted. This takes approximately 30 seconds.

Once powered on the Smart Thermostat HQ will guide you on-screen through setup.

Test the HVAC System

Additional configuration

Add devices to the

of the two following methods.

add the device:

confirm it is added.

of the Smart Thermostat HQ.

Troubleshooting

Problem

During installation

the Status LED on

the Thermostat

does not turn on.

The Display does

not turn on when

connected to the

or "heating when it

should be cooling".

Heating or Cooling

when the setpoint is

above or below the

room temperature.

The Smart

indicates an

found.

Thermostat HQ

account was not

from the Smart

Thermostat HQ.

How to reset the **Smart Thermostat**

How to Reboot the

Smart Thermostat

Regulatory information

HQ to factory

settings.

HQ.

does not turn on

Thermostat.

Smart Thermostat HQ

connected to the Smart Thermostat HQ.

weather to fully test the system.

Setup is complete once the home screen of the thermostat is shown.

⚠ CAUTION: Do not test the cool mode during cold weather. Wait for mild

If the Smart Thermostat HQ will control a heating system, test the heating system by changing the mode to HEAT and adjusting the setpoint higher than the current room temperature. Verify the heating

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

Although the default settings will be appropriate in most cases, several

After installation of the Smart Thermostat HQ is completed and it is connected to an account proceed to unbox all devices which will be

Z-Wave devices may be added to the Smart Thermostat HQ using one

Using MobileTech scan the QR code on the device and power up the device. The device will automatically add to the Smart Thermostat HQ.

1. Find the "Add Device" workflow in the Smart Home menu on the Smart Thermostat HQ and follow the on screen prompts.

2. Once the Smart Thermostat HQ is ready to add a device trigger Z-Wave pairing on the device and follow the onscreen prompts to

Confirm all desired devices have been added to the Smart Thermostat HQ by checking the Device List in the Smart Home menu on the screen

Tip

use RH.

has power.

Contact a local HVAC professional for help.

troubleshooting section.

RH and C are required

wiresto power on the unit.

off power to the system

help.

turn on.

before swapping the wire. If this does not fix the problem, contact a local HVAC professional for

Change the setpoint to 2

current temperature and

wait 5 minutes, at which

point the system should

"compressor delay" if the thermostat is protecting the compressor. Heating/ cooling will start after the

The screen will show

If this does not fix the problem, contact a local HVAC professional for

Create an account via

the screen.

entry.

MobileTech or the Partner

Portal and press Retry on

In MobileTech scan the QR code displayed on-screen for quick serial number

finding the appropriate

option under the Smart Home section of the menu.

Find the option to Factory

Reset under Installer

Settings in the menu.

This action will restart setup of the Smart Thermostat HQ.

Select the Reboot Device

Settings to fully Reboot the device. This will take

option in the Installer

~1 minute.

Trigger the device to delete it from the account.

degrees beyond the

See the previous

RH and C wires are

required. If there is only a

single R wire at the wall

RC will not supply power to the thermostat. Verify RH and C are securely inserted into the appropriate terminal. Verify the HVAC system

If the device does not have a QR code or you prefer to manually

Cause

The Thermostat does

The unit does not have

24 VAC power.

not have 24 VAC.

system turns on and that the room is starting to warm up.

Smart Thermostat HQ using the serial number found on the back of the

- thermostat configuration settings can be changed via the Display. Open the menu and proceed to the relevant setting under Installer 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 a local HVAC professional for help.
- Contact a local HVAC professional for help. Some heat pumps use Try physically swapping Heat pump is "cooling when it the O terminal while the O or B wire to the should be heating" others use the B opposite terminal. Turn

terminal for their

To prevent damaging

the compressor, the

Smart Thermostat

HQ inserts a several

minute period after

compressor before

turning it on again.

An account is required

prior to setting up the

Smart Thermostat

turning off the

reversing valve.

The Smart Add a Wi-Fi connection Cell signal strength Thermostat HQ may be poor where when prompted during indicates it cannot the Smart setup. Thermostat HQ is located. A device is behaving How to delete Put the Smart Thermostat Z-Wave devices poorly and needs to HQ into delete mode by

be removed from the

account.

General

troubleshooting.

- The device does not Check the connection seem to be status under the Smart communicatina Home section of the with the account. menu. Run a Comms test to attempt to re-establish connection if it is disconnected. If necessary add a Wifi connection to enhance connection in areas with poor cell signal.
- This device may not cause harmful interference, and This device must accept any interference received, including interference that may cause undesired operation of the device. NOTE: Changes and Modifications not expressly approved by Building 36 can void your authority to operate this equipment under Federal Communications Commission's rules. 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 instruction, may cause harmful interference to radio communication. However, there is no augrantee that interference will not occur in a particular installation. If this equipment does cause harmful

This device complies with part 15 of the FCC rules. Operation is subject to the following two

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 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.

L'appareil ne doit pas produire de brouillage, et

d'en compromettre le fonctionnement.

antenne ou transmetteur.

Radiation Exposure Statement

The device has been found to be compliant to the requirements set forth

Le dispositif a été jugé conforme aux exigences énoncées dans les articles

IC Notice This device complies with Industry Canada license-exempt RSS standard(s). Operation is subject to the following two conditions: This device may not cause interference, and This device must accept any interference received, including interference that may cause undesired operation of the device Le present appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisee aux deux conditions suivantes:

L'appareil doit accepter tout brouillage radioelectrique subi, meme si le brouillage est susceptible

in CFR 47 Sections 2.1091 and Industry Canada RSS-102 for an uncontrolled environment. The antenna(s) used for this transmitter must be installed to provide a separation distance of at least 20 cm from all persons and must not be co-located or operating in conjunction with any other antenna

47 CFR 2.1091 et Industrie Canada RSS-102 pour un environnement non contrôle'. L'antenne(s) utilisée pour ce transmetteur doit etre installé pour fournir une distance de séparation d'au moins 20 cm de toutes les personnes et ne doit pas être co-localisés ou fonctionner en conjunction avec une autre