

Temperature Sensor

PRODUCT GUIDE

OVERVIEW

The Alarm. com Temperature Sensor is specifically designed to work with the Alarm. com Smart Thermostat to provide advanced functionality and precision comfort. With the Temperature Sensor, you can monitor the temperature of any indoor location and receive temperature alerts through the web or your mobile device.

When would you use the Temperature Sensor?

- Maintain the home temperature based on the most lived in areas
- Monitor individual room temperature around the house
- Get alerts when the temperature drops in key rooms (for example, in the basement near water pipes)

The Temperature Sensor integrates with the Alarm. com Smart Thermostat for advanced functionality.



DEVICE BENEFITS

- Room specific temperature
- Averaged temperature readings
- Set schedules
- Get alerts through text or email notifying of any unusual changes in temperature

DEVICE FEATURES

- Z- Wave Plus Certified
- US Z- Wave Frequency (908 MHz)
- Battery powered, 3+ year battery life
- Operating Temperature Range: 32 ° to 90 ° F (0°C to 35°C)
- OTA Upgradable on supported panels
- Designed for indoor use only

INCLUDED MATERIALS

- Temperature Sensor
- CR 123 Battery
- Finishing Nail
- Double- sided Adhesive Tape

REQUIREMENTS

Smart Thermostat

Works with the Alarm.com Smart Thermostat.

HVAC

Works with most HVAC carriers. Check with your Trinity representative to make sure yours is compatible.

Mobile App

Download the latest Alarm.com Mobile App for iOS or Android (version 4.4.1).

Service Plan

Security panel that is compatible with the Temperature Sensor. Additional monthly costs may apply.

ADVANCED FUNCTIONALITY

Room- Specific Temperature

Control the temperature of any room by pairing the Temperature Sensor with the Smart Thermostat. The Smart Thermostat regulates the temperature by using the data from the Temperature Sensor in that particular room, overriding its own temperature reading. For example, if your Smart Thermostat is in an undesired location of your home (such as a hallway), place a Temperature Sensor in a common area such as the living room and have your Smart Thermostat use the Temperature Sensor readings instead.

Averaged Temperature Readings

Create a more balanced temperature throughout the home and reduce temperature variations from room to room by creating a temperature set point using the average of the temperature readings from your Temperature Sensors and Smart Thermostat. For example, if there are multiple bedrooms, set the Smart Thermostat to bring the average temperature across all bedrooms to the desired setpoint.

Schedules


The Temperature Sensor can be used with the Smart Thermostat schedule to provide comfort in different locations of the home during certain times of the day. For example, during the evening, the Smart Thermostat can make sure the downstairs living room is comfortable, and then automatically bring the comfort to the bedroom at night.

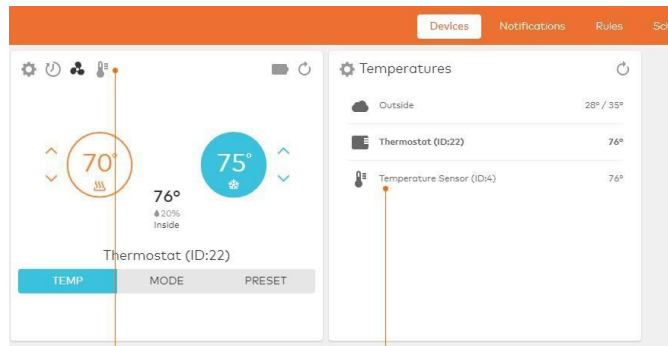
Alerts

Stay informed of potentially dangerous temperatures by receiving a text or email to notify you if the temperature in one location is unusually high or low. For example, place a Temperature Sensor in the basement or attic, near water pipes.

Get precision comfort with remote temperature sensing. By default, the HVAC system keeps the thermostat's internal thermometer at a selected target temperature. With Temperature Sensors placed in different rooms around the home, the system is also able to detect the temperature in these other areas, such as an upstairs bedroom or downstairs den.

View Temperature Sensors

Note: If the thermostat is in Off mode  does not display.



Click the thermometer icon to select which room to bring to your target temperature.

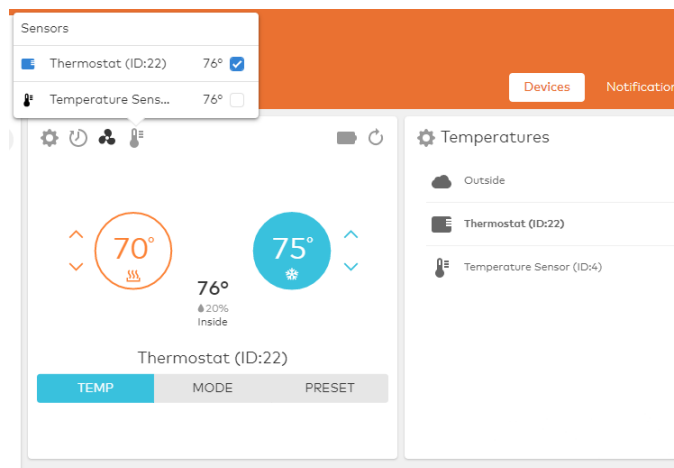
These entries show the temperatures of different rooms around the home as measured by thermostats and Temperature Sensors. The icon to the left of each device name indicates whether the device is a thermostat (🌡️) or a Temperature Sensor (🌡️).

Direct Control: Using Temperature Sensors without Thermostat Schedules

Select one or more Temperature Sensors to directly control your HVAC system when there's no thermostat schedule set.

When clicking , a window appears. From here, one or more Temperature Sensors can be selected.

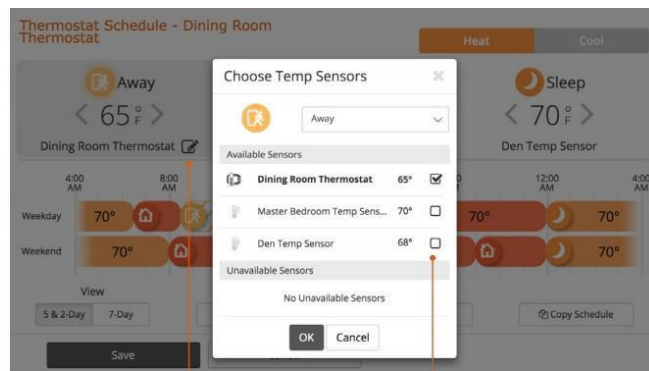
The HVAC system monitors the average temperature reported by the selected sensors and keep the average steady at the target temperature. For example, if the nighttime target temperature is 70 degrees, and all bedroom Temperature Sensors are selected, then the average of temperature across the bedrooms are maintained at 70 degrees.



Adding Temperature Sensors to Thermostat Schedule

Make thermostat schedules even more precise by assigning one or more Temperature Sensors to the Temperature Presets. For example, match the bedroom Temperature Sensor to the Sleep Preset, or the family room Temperature Sensor to the Home Preset. That way, the system is able to cool the right rooms in the house to the target temperature at the times they are in use.

To get started, click **>** on the Thermostat card and then click **Schedules**. Schedules can then be edited from this page.



On the Thermostat Schedule page, the name of each device assigned to each Temperature Preset (Away, Home or Sleep, etc.) will appear underneath each Temperature Preset. Initially, this device will be the thermostat. To change the assigned device, click on the Edit icon (✎).

Select one or more devices (thermometer or Temperature Sensors) to assign to the Temperature Preset. When you select multiple devices, the HVAC system will maintain the average temperature at the target temperature.

TEMPERATURE SENSORS AND WAKEUP DEVICES

The Temperature Sensor is a wake - up device, which means it communicates less frequently than other Z-Wave devices in order to conserve battery power and increase longevity.

This means that:

- Temperature Sensors won't respond to any polling. Alarm.com only knows the temperature if the sensor tells us. The Temperature Sensor is programmed to let Alarm.com know if the temperature changes by a full degree, and initiates and checks in with the panel least once every four hours.
- Alarm.com can hold pending commands for the Temperature Sensor until it wakes up and is able to receive information. That means commands like battery level checks and Link Quality Indicator tests can be stored by the module until such time when the Temperature Sensor is able to receive and carry out the commands.
- Since the Temperature Sensor is dormant most of the time, it does not generally take part in Network Rediscoveries. That's why it's important to install all of your devices and run a Rediscovery before adding the Temperature Sensor. This way, it can determine the best path for transmitting signals to the module when during enrollment.

Can the Temperature Sensors be used in auto mode?

Yes. The Temperature Sensors have built-in safeguards to prevent the system from running too frequently or trying to switch back and forth between Heat and Cool too rapidly. However, it's a good idea to verify that users have their Heat and Cool schedules configured to ensure a safe gap between Heat and Cool target temperatures at any given time.

There should be at least a four-degree difference between the Heat and Cool target temperatures at all times to ensure the system is not cycling too frequently between them.

Note: When in Auto Mode, the Temperature Sensor settings follow those specified on the Heat Mode schedule.

Why does the Temperature Sensor show a malfunction?

If the Temperature Sensor doesn't communicate with the Alarm.com module for 24 hours, it displays a Malfunction. It can be woken up manually by pressing the Pairing button on the side. If it still doesn't respond:

- Repeaters may be added to the network.
- The Temperature Sensor may need to be deleted/re-added.
- A more favorable location for mounting the Temperature Sensor may be needed.

Can multiple Temperature Sensors be used with a multi-thermostat system?

Yes, but things can get complicated quickly with multiple Temperature Sensors and multiple thermostats. The user experience is designed to be as simple and easy as possible, but when working with three thermostats and five

Temperature Sensors placed around a house, managing all of them while trying to maximize the HVAC system's energy efficiency can be challenging. Safeguards have been added to prevent Temperature Sensors from being used for multiple devices at the same time and to prevent systems from contradicting each other (and running Heat and Cool simultaneously, for instance). In general, it is recommended to start simple and build out as the user gets more experienced.

Why is N/A showing on the Temperatures card?

Until Alarm.com has received a temperature report from a Temperature Sensor, the Customer Website won't have anything to show on that card. To prompt a temperature report, change the temperature of the Temperature Sensor by a degree or press the button on the side of the Temperature Sensor. Shortly after that's done, a temperature displays on the Customer Website.

Can a Remote Temperature Sensor be used with any Z-Wave thermostat or is the Alarm.com Smart Thermostat required?

Without the Alarm.com Smart Thermostat, it is still possible to see the current temperature in your Temperature Sensor's location and use that to inform your decision when selecting a target temperature. However, for full functionality, including pairing Temperature Sensors for direct control, temperature averaging, and scheduled automation, an Alarm.com Smart Thermostat is required.

How can discomfort or high energy costs incurred as a result of a failed or unresponsive Temperature Sensor be prevented?

The Temperature Sensor was carefully developed to build in multiple fail-safes to prevent that from happening. These include close sensor supervision and checks for the thermostat's observed temperature differing by too much from that of the Temperature Sensor.

How many Temperature Sensors can be used on one system?

A maximum of 10 Temperature Sensors can be used on one system. Each Temperature Sensor can only be used to control one thermostat at a time.

What notifications are available for the Temperature Sensor?

With the Alarm.com Temperature Sensor, the user can receive notifications for Temperature Alerts and System Event alerts when the device is in malfunction or has a low battery.

What is the battery life of the Temperature Sensor, and what type of battery does it use?

The battery life is up to three years and it uses a 3-volt Lithium CR 123 A series battery.

What is the recommended operating temperature for the Temperature Sensor?

The Temperature Sensor is designed for indoor use, and it is recommended that it not be used in environments likely to be outside the range of 32-95°F (0-35°C).

Why doesn't the Remote Temperature Sensor remain selected to control the HVAC system?

If a schedule is enabled for the thermostat, the settings for that interval will be used when the next scheduled interval occurs. Contact your Trinity representative for additional information.