



## Building 36 Intelligent Thermostat B36-T10 Manual

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### Building 36

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## Building 36 Intelligent Thermostat

SKU: B36-T10



## Quickstart

This is a

HVAC-Thermostat

for

**U.S. / Canada / Mexico.**

To run this device please connect it to your mains power supply.

To add this device to your network execute the following action:

1. Put the thermostat in OFF mode (No mode icons are lit).
2. Put the Z-Wave controller into add mode. Refer to the controller documentation for more information.
3. Press and hold the DOWN button on the thermostat to begin inclusion. Release the button when the RADIO icon lights up.
4. When the RADIO icon becomes solid, the thermostat has been added.

Please refer to the

[Manufacturers Manual](#) for more information.

## Important safety information

Please read this manual carefully. Failure to follow the recommendations in this manual may be dangerous or may violate the law.

The manufacturer, importer, distributor and seller shall not be liable for any loss or damage resulting from failure to comply with the instructions in this manual or any other material.

Use this equipment only for its intended purpose. Follow the disposal instructions.

Do not dispose of electronic equipment or batteries in a fire or near open heat sources.

## What is Z-Wave?

Z-Wave is the international wireless protocol for communication in the Smart Home. This device is suited for use in the region mentioned in the Quickstart section.

Z-Wave ensures a reliable communication by reconfirming every message (**two-way communication**) and every mains powered node can act as a repeater for other nodes (**meshed network**) in case the receiver is not in direct wireless range of the transmitter.



This device and every other certified Z-Wave device can be **used together with any other certified Z-Wave device regardless of brand and origin** as long as both are suited for the same frequency range.

If a device supports **secure communication** it will communicate with other devices secure as long as this device provides the same or a higher level of security. Otherwise it will automatically turn into a lower level of security to maintain backward compatibility.

For more information about Z-Wave technology, devices, white papers etc. please refer to [www.z-wave.info](http://www.z-wave.info).

## Product Description

The Building 36 Intelligent Thermostat gives you remote access and control of your thermostat. Enjoy effortless energy management, climate and ambiance control, custom automation and measurable results. Create custom smart schedules that automate your thermostat. Receive critical temperature alerts to know instantly when your thermostat reaches preset limits. Save energy by using location-based automation to have your thermostat adjust itself while you're out. This thermostat is part of an entire ecosystem of home automation products. It was built to provide a single integrated solution to give you more from your connected home.

## Prepare for Installation / Reset

Please read the user manual before installing the product.

In order to include (add) a Z-Wave device to a network it **must be in factory default state**. Please make sure to reset the device into factory default. You can do this by performing an Exclusion operation as described below in the manual. Every Z-Wave controller is able to perform this operation however it is recommended to use the primary controller of the previous network to make sure the very device is excluded properly from this network.

## Reset to factory default

This device also allows to be reset without any involvement of a Z-Wave controller. This procedure should only be used when the primary controller is inoperable.

Please use this procedure only when your primary controller is missing or otherwise inoperable.1. Put the thermostat in OFF mode (No mode icons are lit).2. Press and hold the UP button to show the firmware versions.3. Once the firmware versions are shown, press and hold the DOWN button to enter RST mode. The thermostat should display "RST".

## Safety Warning for Mains Powered Devices

ATTENTION: only authorized technicians under consideration of the country-specific installation guidelines/norms may do works with mains power. Prior to the assembly of the product, the voltage network has to be switched off and ensured against re-switching.

## Inclusion/Exclusion

On factory default the device does not belong to any Z-Wave network. The device needs to be **added to an existing wireless network** to communicate with the devices of this network. This process is called **Inclusion**.

Devices can also be removed from a network. This process is called **Exclusion**. Both processes are initiated by the primary controller of the Z-Wave network. This controller is turned into exclusion respective inclusion mode. Inclusion and Exclusion is then performed doing a special manual action right on the device.

### Inclusion

1. Put the thermostat in OFF mode (No mode icons are lit).2. Put the Z-Wave controller into add mode. Refer to the controller documentation for more information.3. Press and hold the DOWN button on the thermostat to begin inclusion. Release the button when the RADIO icon lights up.4. When the RADIO icon becomes solid, the thermostat has been added.

### Exclusion

1. Put the thermostat in OFF mode (No mode icons are lit).2. Press and hold the remove button on the Z-Wave controller. Refer to controller documentation for more information.3. Press and hold the DOWN button on the thermostat to enter exclusion mode. Release the button when the RADIO icon lights up.4. When the RADIO icon becomes solid the thermostat has now been successfully removed from the network.

## Quick trouble shooting

Here are a few hints for network installation if things don't work as expected.

1. Make sure a device is in factory reset state before including. In doubt exclude before include.
2. If inclusion still fails, check if both devices use the same frequency.
3. Remove all dead devices from associations. Otherwise you will see severe delays.
4. Never use sleeping battery devices without a central controller.
5. Don't poll FLIRS devices.
6. Make sure to have enough mains powered device to benefit from the meshing

## Association – one device controls another device

Z-Wave devices control other Z-Wave devices. The relationship between one device controlling another device is called association. In order to control a different device, the controlling device needs to maintain a list of devices that will receive controlling commands. These lists are called association groups and they are always related to certain events (e.g. button pressed, sensor triggers, ...). In case

the event happens all devices stored in the respective association group will receive the same wireless command wireless command, typically a 'Basic Set' Command.

## Association Groups:

Group NumberMaximum NodesDescription

|   |   |                      |
|---|---|----------------------|
| 1 | 4 | Z-Wave Plus Lifeline |
|---|---|----------------------|

## Technical Data

|                            |                      |
|----------------------------|----------------------|
| Hardware Platform          | ZM5202               |
| Device Type                | Thermostat – HVAC    |
| Network Operation          | Always On Slave      |
| Firmware Version           | 1.0                  |
| Z-Wave Version             | 6.51.02              |
| Certification ID           | ZC10-14120002        |
| Z-Wave Product Id          | 0x0190.0x0001.0x0001 |
| Frequency                  | XXfrequency          |
| Maximum transmission power | XXantenna            |

## Explanation of Z-Wave specific terms

- **Controller** — is a Z-Wave device with capabilities to manage the network.  
Controllers are typically Gateways, Remote Controls or battery operated wall controllers.
- **Slave** — is a Z-Wave device without capabilities to manage the network.  
Slaves can be sensors, actuators and even remote controls.
- **Primary Controller** — is the central organizer of the network. It must be a controller. There can be only one primary controller in a Z-Wave network.
- **Inclusion** — is the process of adding new Z-Wave devices into a network.
- **Exclusion** — is the process of removing Z-Wave devices from the network.
- **Association** — is a control relationship between a controlling device and a controlled device.
- **Wakeup Notification** — is a special wireless message issued by a Z-Wave device to announces that is able to communicate.
- **Node Information Frame** — is a special wireless message issued by a Z-Wave device to announce its capabilities and functions.