



Yale Locks & Hardware Yale Assure Lock with Bluetooth Z-Wave Enabled Push Button Deadbolt YRD416-ZW2 Manual

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Yale Locks & Hardware

Yale Assure Lock with Bluetooth Z-Wave Enabled Push Button Deadbolt

SKU: YRD416-ZW2





Quickstart

This is a
secure
Door Lock – Keypad
for
U.S. / Canada / Mexico.

Please make sure the internal battery is fully charged.

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

1. Enter the 4-8 digit master PIN code followed by the gear key. 2. Press the 7 key followed by the gear key. 3. Press the 1 key followed by the gear key.

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.

Product Description

Never worry about carrying around or losing your keys again. Unlock and lock your home with ease from the backlit keypad. Create unique pin codes for friends and family and remove codes whenever you need to. This Yale Real Living lock features Z-Wave technology and seamlessly integrates into 50+ home automation and security systems. When added to most Z-Wave automation systems, lock and unlock your door, create pin codes, view access history and receive notifications from anywhere. The lock is tamper resistant, easy to install and even easier to use!

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 the network primary controller is missing or otherwise inoperable.1. Remove the inside lever with the lever removal tool.2. Remove battery cover using hex wrench provided with lock.3. Remove four (4) AA batteries.4. Remove the 10-32 x 3/4" pan head screw from the center of the battery housing into the barrel nut of the outside assembly.5. Remove inside escutcheon. Cables may stay connected.6. Reinstall batteries 7. On the back of the PC board, push and hold the Reset Button with the lever removal tool for 3 seconds.8. While continuing the press the reset button, temporarily remove one AA battery.9. Reinstall the battery.10. Release reset button and wait 15 seconds. Speaker will announce "Welcome to Yale".11. Reassemble escutcheon

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. Enter the 4-8 digit master PIN code followed by the gear key.2. Press the 7 key followed by the gear key.3. Press the 1 key followed by the gear key.

Exclusion

1. Enter the 4-8 digit master PIN code followed by the gear key.2. Press the 7 key followed by the gear key.3. Press the 3 key followed by the gear key.

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 an other 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, typically a 'Basic Set' Command.

Association Groups:

Group Number	Maximum Nodes	Description
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1	1	Z-Wave Plus Lifeline
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Configuration Parameters

Z-Wave products are supposed to work out of the box after inclusion, however certain configuration can adapt the function better to user needs or unlock further enhanced features.

IMPORTANT: Controllers may only allow configuring signed values. In order to set values in the range 128 ... 255 the value sent in the application shall be the desired value minus 256. For example: To set a parameter to 200 it may be needed to set a value of 200 minus 256 = minus 56. In case of a two byte value the same logic applies: Values greater than 32768 may needed to be given as negative values too.

Parameter 1: Silent Mode on/off

Level control, 1, 2, 3 default is 1. Levels are 1 and 3 for models with no spoken prompts default is 1 or high
Size: 1 Byte, Default Value: 1

SettingDescription

1 – 3	Level
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Parameter 11: One Touch Locking

0x00 = OFF, 0xFF = ON default is 0xFF or ON.
Size: 1 Byte, Default Value: 0

SettingDescription

-128	One Touch Locking On
0	One Touch Locking Off

Parameter 12: Privacy Button

0x00 = OFF, 0xFF = ON default is 0x00 or OFF
Size: 1 Byte, Default Value: 0

SettingDescription

-128	Privacy Button On
0	Privacy Button Off

Parameter 13: Lock Status LED

0x00 = OFF, 0xFF = ON default is 0x00 or OFF
Size: 1 Byte, Default Value: 0

SettingDescription

-128	LED On
0	LED Off

Parameter 15: Reset to Factory Defaults

01 = Lock will execute Reset To Factory. 02 = Reserved for future use (Lock will currently execute Reset To Factory same as 01). No default value. Please use this procedure only when the network primary controller is missing or otherwise inoperable.

Size: 1 Byte, Default Value: 0

SettingDescription

-128	Reset to Factory On
0	Reset to Factory Off

Parameter 2: Auto Relock On/Off

0x00 = OFF, 0xFF = ON default is 0x00 or OFF

Size: 1 Byte, Default Value: 0

SettingDescription

-128	Auto Relock On
0	Auto Relock Off

Parameter 3: Auto Relock Time

10 to 127 seconds default is 30 seconds

Size: 1 Byte, Default Value: 30

SettingDescription

10 – 127	Seconds
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Parameter 4: Wrong Code Entry Limit

3 to 10 default is 5 times

Size: 1 Byte, Default Value: 5

SettingDescription

3 – 10	Times
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Parameter 7: Shut Down Time (after wrong code entries)

10 to 127 seconds default is 60 seconds

Size: 1 Byte, Default Value: 60

SettingDescription

10 – 127	Seconds
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Parameter 8: Operating Mode

This sets the operating mode for the lock.

Size: 1 Byte, Default Value: 0

SettingDescription

0	Normal Mode (Default)
1	Vacation Mode (Keypad Locked Out)
2	Privacy Mode (Keypad Locked, RF Unlock Functional)

Technical Data

Hardware Platform	ZM5101
Device Type	Door Lock – Keypad
Network Operation	Listening Sleeping Slave
Firmware Version	HW: 255 FW: 1.78:43.00
Z-Wave Version	6.51.07
Certification ID	ZC10-19036394
Z-Wave Product Id	0x0129.0x8004.0x1000
Door Lock Type	Deadbolt Motor Attachment
Supported Notification Types	Access Control
Firmware Updatable	Updatable by Manufacturer
Outdoor Use	ok
Frequency	XXfrequency
Maximum transmission power	XXantenna

Supported Command Classes

- Association Grp Info
- Association V2
- Battery
- Configuration
- Device Reset Locally
- Door Lock Logging
- Door Lock V2
- Firmware Update Md V3
- Manufacturer Specific V2
- Notification V4
- Powerlevel
- Schedule Entry Lock V3
- Security
- Time Parameters
- Time V2
- User Code
- Version V2
- Zwaveplus Info V2

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 announce that it is able to communicate.
- **Node Information Frame** — is a special wireless message issued by a Z-Wave device to announce its capabilities and functions.