Manuals+ — User Manuals Simplified.

Yale Locks & Hardware Yale Assure 2 Lock SL Keyed Keypad YRD410-ZW2 Manual

Contents

Yale Locks & Hardware

Yale Assure 2 Lock SL Keyed Keypad

SKU: YRD410-ZW2

ZWave+

Security

Quickstart

This is a
secure
Door Lock – Keypad
for
.

Please make sure the internal battery is fully charged.

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. The Assure Lock SL features Z-Wave and seamlessly integrates into 50+ home automation and security systems including SmartThings, Alarm.com, Honeywell, ADT, Wink and more! When added to most Z-Waveautomation systems, lock and unlock your door, create pin codes, view access history and receive notifications from anywhere.

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.

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.

Quick trouble shooting

Here are a few hints for network installation if things dont 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. Dont 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 wireless command, typically a 'Basic Set' Command.

Association Groups:

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

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 200â€ˆit 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 = High Volume, 2 = Low Volume, 3 = Silent.Default is 2 or Low Volume

Size: 1 Byte, Default Value: 2

Setting	Description
1 – 3	Level

Parameter 11: One Touch Locking

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

Setting	Description
255	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

Setting	Description
255	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

Setting	Description
255	Lock Status LED On
0	Lock Status LED Off

Parameter 15: Reset to Factory Defaults

01 = Lock will execute Reset To Factory.No default value
Size: 1 Byte, Default Value: 0

Setting	Description
255	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

Setting	Description
255	Auto Relock On
0	Auto Relock Off

Parameter 3: Auto Relock Time

10 to 180 seconds default is 30 seconds
Size: 1 Byte, Default Value: 30

Setting	Description
10 – 180	Seconds

Parameter 4: Wrong Code Entry Limit

3 to 10 default is 5 times
Size: 1 Byte, Default Value: 5

Setting	Description
3 – 10	Times

Parameter 5: Language

1=English, 2=Spanish, 3=French default is 1= English
Size: 1 Byte, Default Value: 1

Setting	Description
1 – 3	Language

Parameter 7: Shut Down Time (after wrong code entries)

10 to 180 seconds default is 60 seconds
Size: 1 Byte, Default Value: 60

Setting	Description
10 – 180	Seconds

Parameter 8: Operating Mode

00 = normal mode (this is the default mode)01 = vacation mode, keypad lockout02= privacy mode, no keypad. RF Unlock will work03= passage mode, disable auto relock and stays unlock(0x8109 & 0x8104)
Size: 1 Byte, Default Value: 0

Setting	Description
0	Normal Mode (Default)
1	Vacation Mode (Keypad Locked Out)
2	Privacy Mode (Keypad Locked, RF Unlock Functional)
3	Passage mode, disable auto relock and stays unlock

Technical Data

Hardware Platform	ZM5101
Device Type	Door Lock – Keypad
Network Operation	Listening Sleeping Slave
Firmware Version	HW: 255 FW: 1.78:12.05
Z-Wave Version	6.51.07
Certification ID	ZC10-22067104
Z-Wave Product Id	0x0129.0x8104.0x05D1
Supported Notification Types	
Firmware Updatable	Not Updatable
Door Lock Type	Deadbolt
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 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.

References

- **User Manual**