Danalock V2 BTZU Danalock V2 BTZU Manual

Contents

Danalock

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SKU: Danalock V2 BTZU

Quickstart

This is a

Door Lock
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:
To add or include the danalock into a Z-Wave networkSet the controller in inclusion modeTouch the User Button until you hear two beeps.

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

Z-Wave Controlled door lock with keypad, and Bluetooth Smart.Operated by Z-Wave.Connect Danalock to your Z-Wave gateway -Danalock interfaces with your existing Z-Wave network through the Danalock smartphone app.Operate Danalock remotely by accessing your Z-Wave network from anywhere in the world with internet access.

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.

The danalock can be set to factory settings by holding the User Button for ten beeps. Please use this procedure only when the primary controller is missing or otherwise inoperable.

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

To add or include the danalock into a Z-Wave networkSet the controller in inclusion modeTouch the User Button until you hear two beeps.

Exclusion

To remove or exclude the danalock into a Z-Wave networkSet the controller in exclusion modeTouch the User Button until you hear two beeps.

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 NumberMaximum NodesDescription

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: Direction

This value is ignored if there is a rotation sensor. 0 = The motor goes clockwise when latched 1 = The motor goes counterclockwise when latched.
Size: 1 Byte, Default Value: 0

SettingDescription

1	The motor goes counterclockwise when latched
0	The motor goes clockwise when latched

Parameter 10: BrakeAndGoBack

0 = Disabled. 1-15 Seconds to brake. When used the lock will brake for x amount of seconds and then turn 75 degrees back. Made for special doors without door lever.(Only when unlatching).
Size: 1 Byte, Default Value: 0

SettingDescription

0	Disabled
1 – 15	Seconds to brake. When used the lock will brake for x amount of seconds and then turn 75 degrees back. Made for special doors without door lever.(Only when unlatching).

Parameter 11: Async

0 = Async off, 1 = Async on. Used if the lock is using an optional rotation sensor. When async is enabled the lock will auto calibrate if already unlatched and asked to Unlatch again (used for special door locks where the key turn is asynced from the inside nob.)
Size: 1 Byte, Default Value: 0

SettingDescription

0	Async off
1	Async on. Used if the lock is using an optional rotation sensor. When async is enabled the lock will auto cali brate if already unlatched and asked to Unlatch again (used for special door locks where the key turn is asynced from the inside nob.)

Parameter 12: Door lock operation report type

DEPRECATED. 0 = Simple supported by all controllers that support door locks. 1 = Advanced, more specific reports through notification Command Class. 2 = No Door lock operation reports are sent unsolicited. Should not

be used. Use Notification CC enable instead.
Size: 1 Byte, Default Value: 0

SettingDescription

2	No Door lock operation reports are sent unsolicited.
0	Simple supported by all controllers that support door locks.
1	Advanced, more specific reports through notification Command Class.

Parameter 2: Speed (Torque)

1 = Slowest 2 = Slow 3 = Normal 4 = Fast 5 = Fastest
Size: 1 Byte, Default Value: 3

SettingDescription

2	Slow
3	Normal
4	Fast
5	Fastest
1	Slowest

Parameter 3: Mode

DEPRECATED. 0 = Stepper motor mode wave drive(power saving) 1 = Stepper motor mode full drive(Normal) 2 = Relay mode
Size: 1 Byte, Default Value: 1

SettingDescription

2	Relay mode
0	Stepper motor mode wave drive(power saving)
1	Stepper motor mode full drive(Normal)

Parameter 4: Turn degrees

This value is ignored if there is a rotation sensor. Factor 10 turn degrees (1 = 10 degrees, 9 = 90 degrees etc.)
Size: 1 Byte, Default Value: 9

SettingDescription

1 – 100	Factor 10 turn degrees (1 = 10 degrees, 9 = 90 degrees etc.)

Parameter 5: Auto Latch time

How many seconds from the lock has been unlatched to it automatically should close again. If 0 then it is disabled.
Size: 1 Byte, Default Value: 0

SettingDescription

0 – 60	How many seconds from the lock has been unlatched to it automatically should close again. If 0 then it is disabled.

Parameter 6: Sound

Disable or enable the beep sound from latch or unlatch operations(0 = Disable, 1 = Enable.)
Size: 1 Byte, Default Value: 1

SettingDescription

1	Enable the beep sound from latch or unlatch operations
0	Disable the beep sound from latch or unlatch operations

Parameter 7: Battery Type

Set the type of battery that powers the device. This affects the returned battery state. 0 = 3,6 Volt battery, 1 = 3.0 Volt battery. 2 = Mains power, changing from and to mains power requires the Danalock to be excluded and included.
Size: 1 Byte, Default Value: 1

SettingDescription

2	Mains power, changing from and to mains power requires the Danalock to be excluded and included.
0	3,6 Volt battery
1	3.0 Volt battery.

Parameter 8: Battery alarm value

When the battery level is under this value, the device will notify user with a beep sound after latch or unlatch.
Size: 1 Byte, Default Value: 0

SettingDescription

0 – 100	When the battery level is under this value, the device will notify user with a beep sound after latch or unlatch.

Parameter 9: TurnAndGo

0 = Turn&Go off, 1 = Turn&Go on. Used if the lock is using a optional rotation sensor. Latch&Go on will turn automatically when manual turn is detected.
Size: 1 Byte, Default Value: 0

SettingDescription

0	TurnAndGo off
1	TurnAndGo on will turn automatically when manual turn is detected.

Technical Data

Hardware Platform	ZM5202
Device Type	Door Lock Keypad
Network Operation	Listening Sleeping Slave
Firmware Version	HW: 136 FW: 1.04:1.09
Z-Wave Version	6.51.07
Certification ID	ZC10-16045060
Z-Wave Product Id	0x010E.0x0008.0x0002
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.