User Manual

Model: HCP Lshape ZW3 ANZ / HCP Lshape ZW3 EMEA/ HCP Lshape ZW3 KR

Table of Contents

1 FEATURES & SPECIFICATIONS

1.1 Hardware Characteristics

Parameter	Value
Z-Wave Module	ZGM130S
Z-Wave Antenna Distance	40m (Indoor) /150m (Outdoor)
Input Voltage	3.6-6.0V from the lock
Working Current	RX: 9.8 mA TX: 13.3 mA
Standby Current	0.8μA

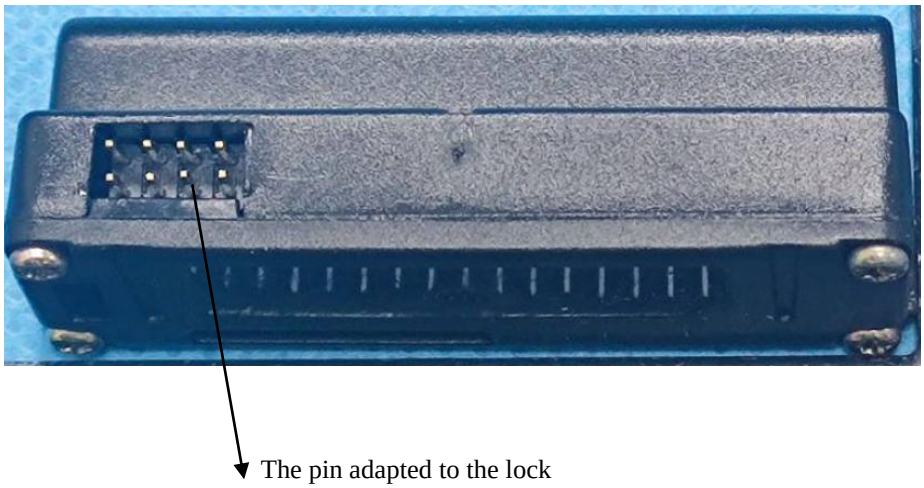
1.2 Software Characteristics

Parameter	Value
Wireless Technology	Z-Wave
Certification Type	Z-Wave Plus v2
Z-Wave SDK Version	7.16.3
Z-Wave Library Type	Enhanced 232 Slave
Z-Wave Role Type	ZWAVEPLUS_INFO_REPORT_ROLE_TYPE_SLAVE_SLEEPING_LISTENING (0x07)
Generic Device Type	GENERIC_TYPE_ENTRY_CONTROL (0x40)
Specific Device Type	SPECIFIC_TYPE_DOOR_LOCK (0x01)
Security Class	S0, S2-ACCESS
Smart Start	Support. After powering on, Smart Start is auto active if it’s out of the Z -Wave network.
Over The Air （OTA）	Support. Firmware can be updated via RF.
Multichannel Device	No

Association	Support. Refer to Section 3.2 Association Group Info.
Factory Reset	Support. Refer to Section 2.5 How to factory reset.
Power-down Memory	Support. All command settings will stay unchanged even power down.
Timed battery report	Support.
Low battery warning	Support.
Door State Report	Support. When door lock mode changed, send out notification via Group 1.

Note: Z-Wave 700 Module cannot be used independently. It should be used with the lock (Yale).

The picture of the Z-Wave 700 Module is below:



2 PRODUCT QUICK START

2.1 What is Z-Wave

Z-Wave is the international wireless protocol for communication in the Smart Home.

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.

2.2 What is SmartStart

SmartStart enabled products can be added into a Z-Wave network by scanning the Z-Wave QR Code present on the product with a controller providing SmartStart inclusion. No further action is required and the SmartStart product will be added automatically within 10 minutes of being switched on in the network vicinity.

2.3 How to add (pairing) the product into Z-Wave network

1. Put the Z-Wave 700 Module into the lock and operate on lock following guide below:
   1) Enter Master Code-> 'R' -> '9' -> '#' -> '1' -> '#' (only can be activated in advanced mode)

2.4 How to remove the product from Z-Wave network

1. Operate on the lock following guide below:

   1) Enter Master Code-> 'R' -> '9' -> '#' -> '3' -> '#' -> Master Code -> '#' (only can be activated in advanced mode)

2.5 How to factory reset for Z-Wave

Note**:** Please use this procedure only when the network primary controller is missing or otherwise inoperable.

1. Operate on the lock following guide below:

   1) Press and hold the "factory reset" key after the lock body
   2) Power off the lock body for more than 5S, and plug in the battery again
   3) Plug in the battery again and wait for 5S to release the "factory reset" key

2.6 Z-Wave DSK Location

2.6.1 How to locate the DSK representation on the product

You can find the QR code when you open the battery box

2.6.2 How to access the DSK representation via the UI

You may also find the QR Code and DSK on individual package of each product.

Please do not remove or damage them.

3 SOFTWARE FUNCTION DEFINITION

3.2 Supported Command Classes

Command Class	Version	Required Security Class
Association	2	S0 or Access Control
Association Group Info	3	S0 or Access Control
Basic	2	S0 or Access Control
Battery	1	S0 or Access Control
Device Reset Locally	1	S0 or Access Control
Door Lock	4	S0 or Access Control
Firmware Update Meta Data	5	S0 or Access Control
Indicator	3	S0 or Access Control
Manufacturer Specific	2	S0 or Access Control

Multi-Channel Association	3	S0 or Access Control
Powerlevel	1	S0 or Access Control
Security 0	1	None
Security 2	1	None
Supervision	1	None
Transport Service	2	None
Version	3	S0 or Access Control
Application Status	1	None
Configuration	4	S0 or Access Control
Door Lock Logging	1	S0 or Access Control
Notification	8	S0 or Access Control
Schedule Entry Lock	3	S0 or Access Control
Time Parameter	1	S0 or Access Control
Time	2	None
User Code	2	S0 or Access Control
Z-Wave Plus Info	2	None

3.2.1 Indicator Command Class

The Receptacle support the Indicator Command Class, version 3 and support the Indicator ID 0x50 (Identify) and Properties ID 0x03, 0x04 and 0x05. However, the value of Properties ID 0x03 only is fixed number and only supports 0x0A. The value of Properties ID 0x05 only is fixed number and only supports 0x05.

3.3 Basic Command Class mapping

Basic Command maps to Door Lock Command Class, as shown below.

Command	Value	Mapped	Value	Function
Basic Set	0x00	Door Lock Operation Set	Door Unsecured	Open the door
	0xFF		Door Secured	Close the door
Basic Report	0x00	Door Lock Operation Report	Door Unsecured	The door is opened
	0xFF		Door Secured	The door is closed
Basic Get		Door Lock Operation Get		

3.4 Z-Wave Plus Info

The Command is used to differentiate between Z-Wave Plus, Z-Wave for IP and Z-Wave devices. This command provides additional information about the Z-Wave Plus device in question.

Parameter	**Value**
Z-Wave Plus Version	2
Role Type	7 (ZWAVEPLUS_INFO_REPORT_ROLE_TYPE_SLAVE_SLEEPING_LISTENING) (APPLICATION_FREQ_LISTENING_MODE_1000ms)
Node Type	0 (ZWAVEPLUS_INFO_REPORT_NODE_TYPE_ZWAVEPLUS_NODE)
Installer Icon Type	0x0300 (ICON_TYPE_GENERIC_DOOR_LOCK_KEYPAD)
User Icon Type	0x0300 (ICON_TYPE_GENERIC_DOOR_LOCK_KEYPAD)

3.5 Version

The Command may be used to obtain the Z-Wave library type, the Z-Wave protocol version used by the application, the individual command class versions used by the application.

Parameter	Value
Z-Wave Protocol Library Type	0x03
Z-Wave Protocol Version	0x07
Z-Wave Protocol Sub Version	7.16.3
Firmware 0 Version	0x02
Firmware 0 Sub Version	0x26
Firmware 1 Version	0x0B
Firmware 1 Sub Version	0x0B
Hardware Version	0x02
Number of additional firmware targets	0x01

3.6 Association Group Info

The Command is used to manage associations to Node ID destinations.

ID	Name	Count	Profile	Function
1	Lifeline	5	General: Lifeline (0x0001)	**Device Reset Locally Notification (0x5A01)：** Issued when Factory Reset is performed. **Battery Report(0x8003)：** Issued periodically to report the current battery level; Issued when battery becomes low. **Door Lock Operation Report (0x6203)：** Issued when door lock mode changed. **Indicator Report (0x8703)：** Triggered when green light changes state. **Door Lock Configuration Report (0x6206)：** Triggered upon a change in door lock configuration. **User Code Report(0x6303):** Issued when user code set **Extended User Code Report(0x630D):** Issued when extended user code set **User Code Keypad Mode Report(0x630A):** Issued when supported keypad mode set **Master Code Report(0x6310):** Issued when master code set **Configuration Report(0x7006):** Issued when configuration set **Notification Report(0x7105):** Issued when notification event triggered

3.6.1 Grouping identifier

1

3.6.2 Maximum number of devices that can be added to the group

5

3.7 Devices from Multiple Manufactures

This product can be operated in any Z-Wave network with other Z-Wave certified devices from other manufactures. All mains operated nodes within the network will act as repeaters regardless of vendor to increase reliability of the network.

3.8 Implemented Notification Types and Events

Types: 0x06 - Access Control
Implemented Events:
0x01 - Manual lock operation
0x02 - Manual unlock operation
0x03 - RF lock operation
0x04 - RF unlock operation
0x06 - Keypad unlock operation
0x09 - Auto lock locked operation
0x0B - Lock jammed
0x0C - All user codes deleted
0x0D - Single user code deleted
0x0E - New user code added
0x0F - New user code not added due to duplicate code
0x10 - Keypad temporary disabled
0x12 - New program code entered: unique code for lock configuration
0x13 - Manually enter user access code exceeds code limit
0x16 - Window/door is open
0x17 - Window/door is closed
Types: 0x08 - Power Management
Implemented Events:
0x01 - Power has been applied
0x0A - Replace battery soon
0x0B - Replace battery now
0x0D - Battery is fully charged

3.9 Configuration Parameters Available in the Product

There is no configuration parameter supported in the product.


FCC compliance statement

This device complies with part 15 of the FCC Rule. Operation is to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment.

§ 15.21 Information to user.
Any Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.