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LOCKLY PGD728F ZU Smart Lock

LOCKLY PGD728F ZU Smart Lock User Manual

Contents

LOCKLY

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Specifications

- Product Name: Z-Wave DoorLock
- Manufacturer: LocklyPRO
- Model Number: V0.02 EN
- Release Date: 24-01-17

Product Information:

The Z-Wave DoorLock can be integrated into any Z-Wave network with other certified devices, acting as repeaters to enhance network reliability. It operates on a wireless mesh network, with interoperability ensured through stringent conformance tests. The Z-Wave identity mark signifies compatibility with all Z-Wave devices.

Usage Instructions:

Supported Command Classes:

- COMMAND_CLASS_INDICATOR
- COMMAND_CLASS_BASIC
- COMMAND_CLASS_CONFIGURATION
- COMMAND_CLASS_TIME
- COMMAND_CLASS_TIME_PARAMETERS

Inclusion Process:

1. Bring the DoorLock within range of the Z-Wave controller.
2. Remove the battery compartment cover carefully.
3. Put the Z-Wave controller into inclusion mode.
4. Press the Program button to enter programming mode.
5. Select 2HB for hub action menu.
6. Select AD and wait for the DoorLock to finish inclusion.
7. The DoorLock will appear on the controller's device list for naming.

Exclusion Process

1. Ensure the DoorLock is powered on and within range of the Z-Wave gateway controller.
2. Put the Z-Wave controller into exclusion mode.
3. Press the Program button to enter programming mode.
4. Select 2HB for hub action menu.
5. Select DE and wait for the DoorLock to finish exclusion.
6. The DoorLock should disappear from the controller's device list.

Z-Wave Basic Information:
If successfully included in the network, basic info about the Z-Wave module can be accessed through the hub action menu by selecting CH.

Lock Factory Reset:
In case of primary controller failure, reset the DoorLock by holding the reset button for at least 3 seconds when not synced with a smartphone. Alternatively, restore factory default settings while syncing with a smartphone.

FAQ

Q: What should I do if the inclusion/exclusion process fails?
A: If the process fails, repeat all steps carefully. Ensure proper proximity and follow instructions accurately for successful inclusion/exclusion.

Introduction

This product is a security enabled Z-Wave Plus® product which uses encrypted Z-Wave Plus messages in order to communicate with other Z-Wave Plus products. A security-enabled Z-Wave® controller must be used to be fully utilize.
This product can be operated in any Z-Wave network with other Z-Wave certified devices from other manufacturers. All mains-operated nodes within the network will act as repeaters regardless of vendor to increase reliability of the network.
Z-Wave is a "Wireless mesh network" and results may vary based on building construction and communication path. To assure interoperability, each Z-Wave product must pass a stringent conformance test to assure that it meets the Z-Wave standard for complete compliance with all other devices and controls. The Z-Wave identity mark assures consumers, integrators, dealers and manufacturers that their products will reliably perform with any other Z-Wave device.

NOTE: The lock's Z-Wave Module must be used in conjunction with a security enabled Z-Wave controller in order to fully utilize its full capability. Other modes in the Z-Wave network can function as repeaters.

Supported Command Classes

	Command class	NonSecure	S2 Access	Ver
1	COMMAND_CLASS_ZWAVEPLUS_INFO	●		2
2	COMMAND_CLASS_SUPERVISION	●		1
3	COMMAND_CLASS_TRANSPORT_SERVICE	●		2
4	COMMAND_CLASS_SECURITY	●		1
5	COMMAND_CLASS_SECURITY_2	●		1
6	COMMAND_CLASS_VERSION		●	3
7	COMMAND_CLASS_MANUFACTURER_SPECIFIC		●	2
8	COMMAND_CLASS_DEVICE_RESET_LOCALLY		●	1
9	COMMAND_CLASS_POWERLEVEL		●	1
10	COMMAND_CLASS_BATTERY		●	1
11	COMMAND_CLASS_DOOR_LOCK		●	4
12	COMMAND_CLASS_USER_CODE		●	1
13	COMMAND_CLASS_DOOR_LOCK_LOGGING		●	1
14	COMMAND_CLASS_ASSOCIATION		●	2
15	COMMAND_CLASS_MULTI_CHANNEL_ASSOCIATION		●	3
16	COMMAND_CLASS_ASSOCIATION_GRP_INFO		●	1
17	COMMAND_CLASS_FIRMWARE_UPDATE_MD		●	5
18	COMMAND_CLASS_NOTIFICATION		●	8
19	COMMAND_CLASS_INDICATOR		●	3
20	COMMAND_CLASS_BASIC		●	2
21	COMMAND_CLASS_CONFIGURATION		●	4
22	COMMAND_CLASS_TIME		●	2
23	COMMAND_CLASS_TIME_PARAMETERS		●	1

Add for Inclusion

1. Bring the DoorLock within direct range of your controller.
2. Carefully remove the battery compartment cover.
3. Put your Z-Wave controller into inclusion mode.
4. Simply press the Program button to enter programming mode.
5. Select "2HB" to enter hub action menu.
6. Select "AD" and wait doorlock to finish the inclusion.
7. The DoorLock will appear on your controller's device list and you can change its name.

Note

1. Program button will be disabled once synced to a smartphone.
2. If the Doorlock has been on inclusion, it can not be on inclusion again.
3. You need input the DSK code while on the inclusion procedure.

Remove for Exclusion

1. Make sure the DoorLock is powered on and located within direct range of your Z-Wave gateway controller.

2. Put your Z-Wave controller into exclusion mode.

3. Simply press the Program button to enter programming mode.

4. Select "2HB" to enter hub action menu.

5. Select "DE" and wait doorlock to finish the exclusion.

6. The DoorLock should disappear from your controller's device list.

Note

1. If the first attempt is unsuccessful, please repeat the process following all steps carefully.

2. If the Doorlock has not been included,it can not be exclusion.

Z-Wave Basic Information
IF Z-Wave has been inclusion to the network successfully,you can get some basic info about the Z-Wave module in the hub action menu through select "CH".

Lock Factory Reset
When your network's primary controller is missing or otherwise inoperable, you may need to reset the device to factory settings manually. To complete the process, make sure your doorlock has not been synced to the smart phone, then press and hold the reset button at least 3 sec to reset the doorlock and Z-Wave module. Also, you can restore the lock to factory default settings while the lock is synching with the smartphone.
When executing factory reset, Z-Wave module will issue the following instructions to smart home controller.

- **Group** "Lifeline Group"
- **Instruction**: DEVICE_RESET_LOCALLY_NOTIFICATION

NOTE: All previously recorded activity and custom settings from
Z- Wave controller will be erased from the device's memory. Please use the local factory reset procedure only when the primary controller is missing or inoperable.

Command Class Notification V4

Command Class Notification is used to report the status of the lock. The table below shows the event and the corresponding status:

Notification Type	Event	Event Parameter
Access Control(06)	Manual Lock Operation(0x01)	
	Manual Unlock Operation(0x02)	
	RF Lock Operation(0x03)	
	RF Unlock Operation(0x04)	
	Keypad Lock Operation(0x05)	
	Keypad Unlock Operation(0x06)	User ID
	Auto Lock Locked Operation(0x09)	
	All user codes deleted(0x0C)	
	Single user code deleted(0x0D)	
	New user code added(0x0E)	
Power Management(08)	Power has been applied(0x01)	
	Replace battery soon(0x0A)	
	Replace battery now(0x0B)	

Note: The auto lock time of Lockly Smart Lock defaults to off. You can customize the auto-lock timer through the DOOR_LOCK_ CONFIGURATION_SET directive.

Instruction Parameter

The lock supports one association group with up to five devices per group. An association group sends an unsolicited command to the configured destinations when triggered by an event. The parameters of the command may be dynamic.
Group 1 for as the "Lifeline Group", Supported command classes:

- BATTERY_REPORT
- DOOR_LOCK_OPERATION_REPORT
- DEVICE_RESET_LOCALLY_NOTIFICATION
- INDICATOR_REPORT
- NOTIFICATION_REPORT
- USER_CODE_REPORT

Manufacturer Parameter

The Lock support the Manufacturer Specific Command Class with the following parameters
MANUFACTURER_SPECIFIC_V2

Name	Value	Description
Manufacture ID	0x043D	PIN Genie DoorLock
Product Type ID	0x03	PRODUCT_TYPE_ID_ZWAVE_PLUS
Product ID	0x0077	RODUCT_ID_DoorLockKeyPad

User Codes

The lock supports User Code Command Class Version 1 with the following parameters. The User ID Status is defined as below

Parameter	Value	Description
User ID Status	0x00	Available (Not set) When user code is deleted
	0x01	Occupied When user code is registered
	0xFE	Status not available When user code is all deleted

Note: Supported User number 0, indicates there is NO supported number of users. You can add and support up to 10 Access Codes. Access Codes are 4 to 10 digits long.

Door Lock Operation Report

Door lock supports auto-locking timer after an access code, key, fingerprint or thumbturn unlocking by setting the DOOR_LOCK_CONFIGURATION_SET parameter.
Use the instruction DOOR_LOCK_OPERATION_SET to set Door Unsecured (0x00), Door Unsecured with timeout (0x01), Door Secured (0xFF).
The door lock operation report will always activate when the door lock status is change.

Door Lock Logging

The list below show which events types are supported by the smart door lock.

Event type& Description
2 Unlock Command: Keypad access code verified unlock command
7 Keypad illegal access code entered
14 Lock Command: Z-Wave (no code)
15 Unlock Command: Z-Wave (no code)
30 Low battery

Battery Level Report

The battery level report, when a user request the current battery level on the Lock, Z-Wave responds this level by Battery Level Report command. when low battery occurs, it reports this by the same command. At the same time, Lockly logo on the interior panel will flash red to reminder users that battery is low.

Parameter	Value	Description
Battery Level	0x00 – 0x64	Battery Level (0 ~ 100 %)
	0xFF	Indicates low battery warning

If the battery level is below a given value, low battery warning is reported (0xFF).
To request Z-Wave Module battery level report, 0x00~0x64.

Note: There is a short delay on the report after doorlock operation. Perform Locking or Unlocking to send battery

level information. Otherwise, the battery level will be displayed as 0.

Command Class Indicator
Command Class Indicator Support the Indicator ID 0x50 (Identify) and Property ID 0x03, 0x04 and 0x05 nodes use a visible LED for identify function.

Command Class Basic

The Basic Command Class mapped to Table

Basic Command	Mapped Command
Basic Set (Value)	Door Lock Operation Set (Door Lock Mode)
Basic Report (Current Value = 0x00)	Door Lock Operation Report (Door Lock Mode = 0x00)
Basic Report (Current Value = 0xFF)	Door Lock Operation Report (Door Lock Mode > 0x00)

Association Command Class

1. Grouping identifier :
   Lifeline Group
2. Maximum number of devices that can be added to the group: 5
3. Description of how the association group is used and/or triggered by the product :
   - Lifeline Group:
   - COMMAND_CLASS_BATTERY, BATTERY_REPORT: Sent when the voltage is lower than 10% or replace the battery. COMMAND_CLASS_NOTIFICATION_V4,
   - NOTIFICATION_REPORT_V4: Sent when unlocking or locking is performed.
   - COMMAND_CLASS_DOOR_LOCK_V4,
   - DOOR_LOCK_OPERATION_REPORT_V4: Sent when unlocking or locking is performed.
   - COMMAND_CLASS_DEVICE_RESET_LOCALLY,
   - DEVICE_RESET_LOCALLY_NOTIFICATION Sent when the door lock is set.
   - COMMAND_CLASS_USER_CODE, USER_CODE_REPORT:
   - Sent when Access Codes is set.
   - COMMAND_CLASS_INDICATOR_V3,
   - INDICATOR_REPORT_V3 Sent when COMMAND_
   - CLASS_INDICATOR is set.

Fingerprint Parameter
This command is used to control the activated or deactivated state of the fingerprint. When deactivated, all fingerprint access will be blocked.
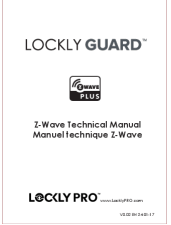
Number	Name	Format/Size	Read Only	Altering	Advanced	MIN	MAX	Default	Value Description
01	Activated Or DeActivated Fp Module	1 byte unsigned integer	NO	NO	NO	0	1	0	0- Activated Fp Module 1- DeActivated Fp Module

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.
The QR Code and digits DSK can be found on welcome card inside the box. After you open the box, you can see it on flap top layer.

Documents / Resources

LOCKLY GUARD™ Z-Wave PLUS Z-Wave Technical Manual Manuel technique Z-Wave LOCKLY PRO® www.LocklyPRO.com	**LOCKLY PGD728F ZU Smart Lock** [pdf] User Manual PGD728F ZU Smart Lock, PGD728F ZU, Smart Lock, Lock

References

- © **Lockly Pro-Total Access Solution for Properties & Offices**
- **User Manual**