

GKW-2000D  
GUARDTEC Door Lock  
Manual

Ver 1.2

## Exterior Parts



## Interior Parts



## Deadbolt



The GKW-2000D Z-Wave is a secure electronic door lock that supports the Z-Wave Plus standard, which is compatible with earlier versions of Z-Wave.

A security enabled Z-Wave controller must be use. The GKW-2000D supports the standard security S0 and the new security standard S2.

The GKW-2000D can be included and operated in any Z-Wave network with other Z-Wave certified devices from other manufacturers and/or other applications.

All non-battery operated nodes within the network will act as repeaters regardless of vendor to increase reliability of the network.

### **Z-Wave Specifications**

- Device Type : Door Lock–Keypad (SPECIFIC\_TYPE\_SECURE\_KEYPAD\_DOOR\_LOCK)
- Role Type : LSS (Listening Sleeping Slave)
- Command Cass Support/Control

### **Z-Wave add/inclusion and remove/exclusion**

Please proceed with the door lock open.

- To add or include the GKW-2000D into a Z-Wave network
  1. Set the controller in inclusion mode.
  2. Open the battery cover of the indoor body and press the [REG] button.
  3. Press the Master Pin [\*\*\*\*(Default:1234)] button after pressing the [#] button.
  4. Press the [88] button after pressing the [\*] button.
- To remove or exclude the GKW-2000D into a Z-Wave network
  1. Set the controller in exclusion mode.
  2. Open the battery cover of the indoor body and press the [REG] button.
  3. Press the Master Pin [\*\*\*\*(Default:1234)] button after pressing the [#] button.
  4. Press the [99] button after pressing the [\*] button.

### **Factory Reset**

Please proceed with the door lock open.

Please use this procedure only when the primary controller is missing or otherwise inoperable.

- To Factory Reset
  1. Open the battery cover of the indoor body and press the [REG] button.
  2. Press the Master Pin [\*\*\*\*(Default:1234)] button after pressing the [#] button.
  3. Press the [5] button after pressing the [\*] button.
  4. Press the [2] button after pressing the [\*] button.
  5. Press the Master Pin [\*\*\*\*(Default:1234)] button after pressing the [#] button.

## Voltage

- 4 AA Alkaline 1.5V Batteries(6V)

## Supported Command Class

Command Class	Version	Not added	Non-Secure added	Securely added	
				Non-secure CC	Secure CC
Z-Wave Plus Info	2	Support	Support	Support	
Transport Service	2	Support	Support	Support	
Security 0	1	Support	Support	Support	
Security 2	2	Support	Support	Support	
Association	2				Support
Association Grp Info	1				Support
Battery	1				Support
Device Reset Locally	1				Support
Door lock	2				Support
Firmware update MD	4				Support
Manufacturer Specific	2				Support
Notification	4				Support
Power level	1				Support
Supervision	1				Support
User Code	1				Support
Version	2				Support

## Association(V2) & Association Group Information(V1)

- The GKW-2000D supports two association groups:
  - > Group 1 is the Lifeline group. It can contain up to 5 nodes. The Lifeline group on this lock is used to report door lock operation report, and device reset locally notifications to nodes on the group list.
  - > Group2 is the Doorlock Op group. It can contain up to 5 nodes. The Doorlock Op group on this lock is used to report door lock operation to nodes on the group list.

### Battery CC(V1)

The Battery Get request can be used to get the status of the battery.

When battery level is low a battery warning is send to the controller.

### Device Reset Locally(V1)

- When the Z-Wave module is reset it sends a report to tell the controller it has been reset.
- To reset the lock, press the [REG] + Master Pin[\*\*\*\*(Default:1234)] + [#] + [00] + [\*] button.
- Please use this procedure only when the primary controller is missing or otherwise inoperable.

### Door Lock(V2)

- Door Lock Operation is used to lock and unlock the GWK-2000D.
- See table to see how the Door Lock Mode parameter affects the lock.

	Secured	Unsecured
Door Lock Mode	0xFF	0x00

In a Door Lock Operation Report the GWK-2000D will report.

Door Status		Unlocked	Locked
Door Lock Mode		0x00	0xFF
Handles	Inside	0x01	0x00
	Outside	0x10	
Door Condition	Bit 0 : Door	0 : Open, 1 : Close	
	Bit 1 : Deadbolt	0 : Locked, 1 : Unlocked	
	Bit 2 : Latch	0 : Open, 1 : Close	
Lock Timeout Minutes		0xFE	
Lock Timeout Seconds		0xFE	

### Firmware Update Meta Data(V4)

The GWK-2000D supports firmware update of the Z-Wave module over the air.

The firmware upgrade takes ~30 min with S0 and ~20 min with S2

Firmware ID = 0x2801.

Firmware 0 ID = 0x0101.

**Manufacture Specific(V2)**

	Value	Comment
Manufacturer ID	0x037B	Guardtec Inc.
Product Type ID	0x0002	GKW-2000D
Product ID	0x0001	DoorLockKeyPad

**Notification(V4)**

The Notification CC is implemented as a push only, which means only pushes notification to the controller.

Sequence number is not supported.

	Supported notifications		
Notification Type	Event	State Parameters	Comments
Access Control(0x06)	0x01		User ETX button used to lock the door.
	0x02		User ETX button used to unlock the door.
	0x03		BLE or Z-wave used to lock the door.
	0x04		BLE or Z-wave used to unlock the door.
	0x05	User Identifier	User Keypad used to lock the door.
	0x06	User Identifier	User Keypad used to unlock the door.
	0x09		The Auto Latch time has locked the door.
	0x0D		User code deleted.
	0x0E		User code add.
Home Security(0x0A)	0x01		Contact police
	0x02		Contact fire service

**Power Level(V1)**

Can be used under inclusion to test signal strength from the controller and to the device.

**Security(V1)**

See Z-Wave documentation.

**Security(V2)**

The GKW-2000D support S2\_ACCESS security class.

**Supervision(V1)**

See Z-wave documentation.

## Transport Service(V2)

See Z-Wave documentation.

## User Code(V1)

Lock will accept maximum 20 pin codes that are 4-10 digits in length.

- Support Users : 20
- ID Range : 1~20

## Version(V2)

This command Class is used to get information about which version of the different command classes the GWK-2000D supports and the software version of the GWK-2000D.

Version Report	
Z-Wave Library Type	ZW_LIB_SLAVE_ENHANCED(0x03)
Z-Wave Protocol Version	0x04(SDK v6.71.01)
Z-Wave Protocol Sub Version	0x3D(SDK v6.71.01)

### 1) Firmware 0 Version

Version of the firmware on the Z-Wave module

Version	Subversion	Comments
1	0	First Release

### 2) Firmware 1 Version

Version of the firmware on the Host(GWK-2000D)

Version	Subversion	Comments
1	0	First Release

### 3) Hardware Version

0x01	GKW-2000D
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## Z-Wave Plus Info(V2)

Z-WAVE Plus Info	
Role Type	0x07 ROLE_TYPE_SLAVE_SLEEPING_LISTENING
Node Type	0x00 NODE_TYPE_ZWAVEPLUS_NODE
Icon Type	0x0300 ICON_TYPE_GENERIC_DOOR_LOCK_KEYPAD
User Icon Type	0x0300 ICON_TYPE_GENERIC_DOOR_LOCK_KEYPAD