

GKT-1000A
GUARDTEC Door Lock
Manual

Exterior Parts



Interior Parts



EM Lock



The GKT-1000A 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 GKT-1000A supports the standard security S0 and the new security standard S2.

The GKT-1000A 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 : AOS (Always On Slave)
- Command Cass Support/Control

Z-Wave add/inclusion and remove/exclusion

Please proceed with the door lock open.

- To add or include the GKT-1000A into a Z-Wave network
 1. Set the controller in inclusion mode.
 2. Press the [*] button.
 3. Press the Master Pin [1234] button after pressing the [#] button.
 4. Press the [88] button after pressing the [*] button.
- To remove or exclude the GKT-1000A into a Z-Wave network
 1. Set the controller in exclusion mode.
 2. Press the [*] button.
 3. Press the Master Pin [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. Press the [*] button.
 2. Press the Master Pin [1234] button after pressing the [#] button.
 3. Press the [00] button after pressing the [*] button.

Adapter

- Input : 100~240V AC 50/60Hz 0.6A Max
- Output : 12V DC 2A

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
Configuration	1				Support
Device Reset Locally	1				Support
Door lock	2				Support
Firmware update MD	4				Support
Manufacturer Specific	2				Support
Notification	8				Support
Power level	1				Support
Supervision	1				Support
User Code	1				Support
Version	2				Support

Association(V2) & Association Group Information(V1)

- The GKT-1000A 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.

Configuration(V1)

Z-Wave Parameter no.	Parameter Name	Parameter Size	Default value	Description
1	Auto relock	1 byte	1	1 : Auto 2 : Manual
2	Relock time	1 byte	7	1~60 Sec
3	Volume	1 byte	2	1 : Mute 2: Normal, 3 :Max
4	Senser Type	1 byte	2	1 : NO, 2 :NC
5	Alarm mode	1 byte	2	1 ; Yes, 2 : NO

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 [*] + Master Pin[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 GKT-1000A.
- 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 GKT-1000A 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 GKT-1000A 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	0x0001	GKT-1000A
Product ID	0x0001	DoorLockKeyPad

Notification(V8)

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

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 GKT-1000A 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 30 pin codes that are 4-10 digits in length.

- Support Users : 30
- ID Range : 1~30

Version(V2)

This command Class is used to get information about which version of the different command classes the GKT-1000A supports and the software version of the GKT-1000A.

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	1	First Release

2) Firmware 1 Version

Version of the firmware on the Host(GKT-1000A)

Version	Subversion	Comments
1	1	First Release

3) Hardware Version

0x01	GKT-1000A
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Z-Wave Plus Info(V2)

Z-WAVE Plus Info	
Role Type	0x05 ROLE_TYPE_SLAVE_ALWAYS_ON
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