

Yale Locks

Z-Wave+ System Integrators Guide

Yale nexTouch Sectional Mortise Keypad Lock

NTM 610/615/620/625/630/635/640/645

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Yale Z-Wave+ Info

Manufacturer ID: Assa Abloy (0x0129)

Z-Wave Device Type: Door Lock Keypad

Z-Wave Role Type: Listening Sleeping Slave (LSS)

Product ID: 0x0A00

Product Type ID:

0x8008 – NTM620/625/640/645-ZW2 (Touch Screen interface)

0x8008 – NTM610/615/630/635-ZW2 (Push Button Interface)

Supported Command Classes

Command Class Z-Wave+ Info
Command Class Manufacturer Specific
Command Class Security
Command Class Device Reset Locally
Command Class Power Level
Command Class Version
Command Class Battery*
Command Class Door Lock*
Command Class Door Lock Logging*
Command Class Schedule Entry Lock*
Command Class User Code*
Command Class Time Parameters*
Command Class Time*
Command Class Association*
Command Class Association Group Info*
Command Class Notification*
Command Class Configuration*
Command Class Firmware Update Md*

* Command Class Requires Security

Association Table

Group ID	Maximum Nodes	Description	Commands
1	5	Lifeline	Command_Class_Battery, Battery_Report ; Command_Class_Notification, Notification_Report; Command_Class_Configuration, Configuration_Report; Command_Class_Device_reset_locally, Device_Reset_locally_notification

Notifications Table:

<u>Alarm Reports</u>	<u>Alarm type</u>	<u>Alarm Level</u>	<u>Description</u>	<u>Notification Type</u>	<u>Event</u>
Master Code changed.	0x70	0x00	Master code was changed at keypad	0x06	0x12
		0xFB	Master code was changed over RF	0x06	0x0E
User added		0x(01-max users)	User added. Alarm level = user slot number	0x06	0x0E
User deleted	0x21	0x(01-max users)	User was deleted. Alarm level = user slot number	0x06	0x0D(0x0C)
Tamper Alarm	0xA1	0x01	keypad attempts exceed code entry limit	0x06	0x10
		0x02	front escutcheon removed from main	0x06	0xFE
RF Operate Unlock	0x19	0x01	by RF module	0x06	0x04
Keypad Unlock	0x13	0x(01-max users)	Where Alarm level represents user slot number (0xFB = Master Code)	0x06	0x06
Manual Lock	0x15	0x01	by key cylinder or inside thumb-turn	0x06	0x01
		0x02	by touch function (lock and leave)	0x06	0x01
		0x03	By inside button	0x06	0x01

RF Operate Lock	0x18	0x01	by RF module	0x06	0x03
Keypad Lock	0x12	0x (01 - max users)	Where Alarm level represents user slot number	0x06	0x05
Non Access	0x26	0x(01-max users)	A Non Access Code was entered at the lock. Where alarm level represents user slot number	0x06	0xFE
Low Battery Alarms**	0xA8	0x (Current %)	Critical Battery Level (Starting at 4.6V)	0x08	0x0B
	0xA7	0x (Current %)	Low Battery (Starting at 4.4V)	0x08	0x0A
Auto Lock Operate Locked	0x1B	0x01	Auto re-lock cycle complete, locked.	0x06	0x09
Duplicate Pin-code error	0x71	0x (01-max users)	Where Alarm level represents user slot number Alarm generated in response to add user RF cmd. This alarm is not generated when attempting to add duplicate pin at the keypad. The lock simply denies it and plays the “Denied” . Trying to duplicate the master code will result in a 0x71 0x00 alarm report.	0x06	0x0F
RF Module Power Cycled	0x82	0x00	Power to RFM was restored, sent by RF module. The lock doesn't send any alarm to the RF module when power is cycled.	0x08	0x01
Disabled user entered at keypad	0x83	0x(01-max users)	A disabled user pin code was entered at the keypad	0x06	0xFE
Valid user but outside of schedule	0x84	0x(01-max users)	A valid user can be both a normal user and a Non-Access user. If a non-access	0x06	0xFE

			user is out of schedule this alarm will be sent instead of the non-access alarm.		
Door Position Sensor	0x2B	0x00	Door Opened	0x06	0x16
		0x01	Door Closed	0x06	0x17
		0x02	Door Propped (Door Open for longer than configurable door propped time)	0x06	0xFE
Daily Repeating Schedule Set/Erased	0x60	0x(01-max users)	Schedule(s) has been set/erased for specified user ID	0x06	0xFE
Daily Repeating Schedule Enabled/Disabled	0x61	0x(01-max users)	Schedule(s) has been enabled/disabled for specified user ID	0x06	0xFE
Year Day Schedule Set/Erased	0x62	0x(01-max users)	Schedule(s) has been set/erased for specified user ID	0x06	0xFE
Year Day Schedule Enabled/Disabled	0x63	0x(01-max users)	Schedule(s) has been enabled/disabled for specified user ID	0x06	0xFE
All Schedule Types Erased	0x64	0x(01-max users)	Schedule(s) has been set/erased for specified user ID	0x06	0xFE
All Schedule Types Enabled/Disabled	0x65	0x(01-max users)	Schedule(s) has been enable/disabled for specified user ID	0x06	0xFE
Deadbolt Secured/Unsecured	0x2A	0x0000	Deadbolt Secure	0x06	0xFE
		0x0001	Deadbolt Extended/Secured	0x06	0xFE
Lever Rotated (Rx)	0x29	0x0000	Lever was rotated. WGA10 does not distinguish between inside/outside levers	0x06	0xFE

** - The Yale lock also supports a 3rd low battery alarm, too low to operate. This alarm is sent out as a Battery Report (with value = 0xFF) through the Battery Command Class. This is the last low battery alarm level before the product stops functioning.

Configurable Parameters

<u>Configuration Parameters</u>	<u>Parameter Number</u>	<u>Size</u>	<u>Description</u>
Silent mode on/off	1	1 byte	Level control, 1 = High Volume, 2 = Low Volume, 3 = Silent. Default is 1 or High Volume
Auto Relock on/off	2	1 byte	0x00 = OFF, 0xFF = ON default is 0x00 or OFF
Auto Relock time	3	1 byte	1 to 180 seconds default is 03 seconds
Wrong Code Entry Limit	4	1 byte	3 to 10 default is 5 times
Language	5	1 byte	1=English, 2=Spanish, 3=French default is 1= English
Shut down time (after wrong code entries)	7	1 byte	10 to 180 seconds default is 60 seconds
operating mode	8	1 byte	00 = normal mode (this is the default mode) 01 = vacation mode, keypad lockout 02 = privacy mode, no keypad. RF Unlock will work 03 = passage mode, Lock is permanently unlocked.
One Touch Locking	11	1 byte	0x00 = OFF, 0xFF = ON default is 0xFF or ON.
Privacy Button	12	1 byte	0x00 = OFF, 0xFF = ON default is 0x00 or OFF
Lock Status LED	13	1 byte	0x00 = OFF, 0xFF = ON default is 0xFF or ON.
Reset To Factory Defaults	15	1 byte	01 = Lock will execute Reset To Factory. No default value
Escape Return Mode	16	1 byte	0x00 = OFF, 0xFF = ON default is 0x00 or OFF Enables the Escape Return mode of operation for the lock.
Door Propped Timer	18	1 byte	10 to 2540 second. This value is represented as seconds X 10. (ie a value of 4 would mean a door propped timer of 40 seconds) Set to 0x00 to disable Door Propped Alarm. Default = 0x00 (OFF)

DPS Alarms(Ax sensor)	19	1 byte	<p>0x00 = OFF, 0xFF = ON Default is 0xFF or ON.</p> <p>Used to enable/disable door condition alarms for locks that support a door position sensor. Any lock that does not support DPS will always report 0x00.</p>
Deadbolt Installed	20	1 byte	<p>0x00 = NO deadbolt , 0xFF = YES deadbolt</p> <p>Read only parameter. Some locks contain optional deadbolt hardware. This parameter is used to determine if one is installed.</p>
Eco Mode On/Off	21	1 byte	<p>0x00 = OFF, 0xFF = ON default is 0x00 or OFF</p> <p>If supported switches lock to lower power mode of operation with reduced sound and led brightness.</p>
Privacy Mode with Deadbolt	22	1 byte	<p>0x00 = OFF, 0xFF = ON default is 0x00 or OFF</p> <p>If enabled then extending the deadbolt will put the lock into Privacy Mode.</p>
Lock Body Alarms Mask	23	1 byte	<p>Each bit controls one alarm. 1 = alarm enabled, 0 = alarm disabled.</p> <p>0xFF = All Alarms on, Default is 0xFF.</p> <p>Bit 0: DPS Alarm (AX) (Duplicate of parameter 19. Values should be tied together)</p> <p>Bit 1: Deadbolt Alarm</p> <p>Bit 2: Lever Rotated (Rx)</p> <p>Bit 3 – 7: Not Used</p>

*** - Additional hardware required. These parameters are only active if the optional Door Position Switch has been installed with the lock.