

# Yale Locks

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Z-Wave Plus System Integrators  
Guide

Yale Assure Lever Lock

YRL216/226/236/256

January 17, 2019

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\* Command Class Requires Security

## Yale Z-Wave Plus Product Info

Manufacturer ID: Assa Abloy (0x0129)

Z-Wave Device Type: Door Lock Keypad

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

Product ID: 0x0F00

Product Type ID:

0x800B – YR216-ZW2 (Keyed Push Button Lever) & YR236-ZW2 (Key Free Push Button Lever)

0x800C – YR226-ZW2 (Keyed Touch Screen Lever) & YR256-ZW2 (Key Free Touch Screen Lever)

## Supported Command Classes

Command Class Z-Wave Plus 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	1	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>
Master Code changed.	0x70	0x00	Master code was changed at keypad
		0xFB	Master code was changed over RF
User added		0x(01-max users)	User added. Alarm level = user slot number
User deleted	0x21	0x(01-max users)	User was deleted. Alarm level = user slot number
Tamper Alarm	0xA1	0x01	keypad attempts exceed code entry limit
		0x02	front escutcheon removed from main
RF Operate Unlock	0x19	0x01	by RF module
Manual Unlock	0x16	0x01	By key cylinder or inside thumb turn
		0x02	By Inside Button
Keypad Unlock	0x13	0x(01-max users)	Where Alarm level represents user slot number (0xFB = Master Code)
Manual Lock	0x15	0x01	by key cylinder or inside thumb-turn
		0x02	by touch function (lock and leave)
		0x03	By inside button
RF Operate Lock	0x18	0x01	by RF module
Keypad Lock	0x12	0x (01 - max users)	Where Alarm level represents user slot number
Non Access	0x26	0x(01-max users)	A Non Access Code was entered at the lock. Where alarm level represents user slot number
Jammed	0x09	0x01	Jammed while locking
		0x02	Jammed while unlocking
Lock Reset to Factory defaults	0x30	0x00	lock was reset manually to factory defaults lock
		0x01	was reset over RF with a value of 0x01;

		0x02	was reset over RF with a value of 0x02; reserved for future use
Low Battery Alarms**	0xA9	0x (Current %)	Too Low to operate (Starting at 3.8V)
	0xA8	0x (Current %)	Critical Battery Level (Starting at 4.0V)
	0xA7	0x (Current %)	Low Battery (Starting at 4.2V)
Auto Lock Operate Locked	0x1B	0x01	Auto re-lock cycle complete, locked.
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.
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.
Disabled user entered at keypad	0x83	0x(01-max users)	A disabled user pin code was entered at the keypad
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 user is out of schedule this alarm will be sent instead of the non-access alarm.
Daily Repeating Schedule Set/Erased	0x60	0x(01-max users)	Schedule(s) has been set/erased for specified user ID
Daily Repeating Schedule Enabled/Disabled	0x61	0x(01-max users)	Schedule(s) has been enabled/disabled for specified user ID
Year Day Schedule Set/Erased	0x62	0x(01-max users)	Schedule(s) has been set/erased for specified user ID
Year Day Schedule Enabled/Disabled	0x63	0x(01-max users)	Schedule(s) has been enabled/disabled for specified user ID
All Schedule Types Erased	0x64	0x(01-max users)	Schedule(s) has been set/erased for specified user ID
All Schedule Types Enabled/Disabled	0x65	0x(01-max users)	Schedule(s) has been enable/disabled for specified user ID

\*\* - The Yale Assure Lever locks also supports a 3<sup>rd</sup> 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.

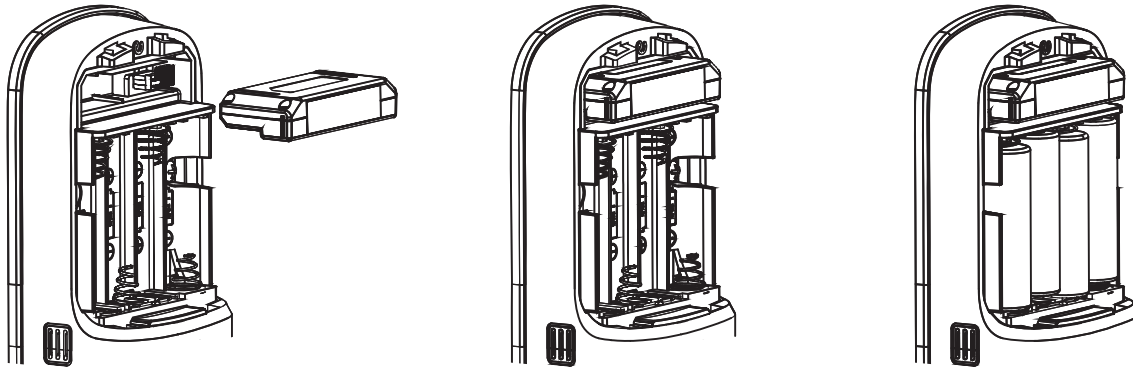
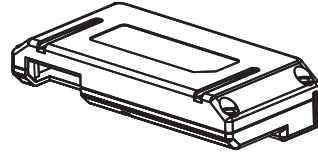
**Configurable Parameters**

<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, 3 = Silent. <b>Default is 1 or High Volume</b>
Auto Relock on/off	2	1 byte	<b>0x00 = OFF, 0xFF = ON default is 0x00 or OFF</b>
Auto Relock time	3	1 byte	10 to 180 seconds <b>default is 30 seconds</b>
Wrong Code Entry Limit	4	1 byte	3 to 10 <b>default is 5 times</b>
Language (YRL226/256 Only)	5	1 byte	1=English, 2=Spanish, 3=French <b>default is 1= English</b>
Shut down time (after wrong code entries)	7	1 byte	10 to 180 seconds <b>default is 60 seconds</b>
operating mode	8	1 byte	<b>00 = normal mode (this is the default mode)</b> 01 = vacation mode, keypad lockout
One Touch Locking	11	1 byte	0x00 = OFF, 0xFF = ON <b>default is 0xFF or ON.</b>
Lock Status LED	13	1 byte	0x00 = OFF, 0xFF = ON <b>default is 0x00 or OFF.</b>
Reset To Factory Defaults	15	1 byte	01 = Lock will execute Reset To Factory. <b>No default value</b>

## Installing the Z-Wave® Plus Module

**IMPORTANT:** the batteries must be removed prior to removing and/or inserting the network module:






- Remove battery cover and batteries.
- Remove and/or insert Network Module.
- Reinstall batteries and battery cover.








## Adding / Removing the Network Module:

This device is a security enabled Z-Wave Plus product that is able to use encrypted Z-Wave Plus messages to communicate to other security enabled Z-Wave Plus products. This device must be used in conjunction with a Security Enabled Z-Wave Controller in order to fully utilize all implemented functions. This product can be operated in any Z-Wave network with other Z-Wave certified devices from other manufacturers. All non-battery operated nodes within the network will act as repeaters regardless of vendor to increase reliability of the network.

To Add the Module (Inclusion Mode):

- Enter the 4-8 digit Master PIN code followed by the  key.
- Press the  key followed by the  key.
- Press the  key followed by the  key.

To Remove the Module (Exclusion Mode):

- Enter the 4-8 digit Master PIN code followed by the  key.
- Press the  key followed by the  key.
- Press the  key followed by the  key.

Factory Reset - If No Controller:

- See the Lock Installation Manual
- Please use this procedure only when the network primary controller is missing or otherwise inoperable.

For specific Z-Wave Plus association and parameter information for your lock, please visit [YaleResidential.com/ZwavePlus](http://YaleResidential.com/ZwavePlus)



**Warning:** Changes or modifications to this device, not expressly approved by Yale Security Inc. could void the user's authority to operate the equipment.

#### **FCC:**

Contain FCC ID: U4A-YRHCPZWOFM

Model: YRMZW2-US

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

THIS DEVICE COMPLIES WITH PART 15 OF THE FCC RULES. OPERATION IS SUBJECT 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 UNDESIRE OPERATION.

Industry Canada:

Contain IC: 6982A-YRHCPZWOFM

Model: YRMZW2-US

**Section 7.1.2 of RSS-GEN** Under Industry Canada regulations, this radio transmitter may only operate using an antenna of a type and maximum (or lesser) gain approved for the transmitter by Industry Canada. To reduce potential radio interference to other users, the antenna type

and its gain should be so chosen that the equivalent isotropically radiated power (e.i.r.p.) is not more than that necessary for successful communication.

En vertu des règlements d'Industrie Canada, cet émetteur radio ne peut fonctionner avec une antenne d'un type et un maximum (ou moins) approuvés pour gagner de l'émetteur par Industrie Canada. Pour réduire le risque d'interférence aux autres utilisateurs, le type d'antenne et son gain doivent être choisies de façon que la puissance isotrope rayonnée équivalente (PIRE) ne dépasse pas ce qui est nécessaire pour une communication réussie.

**Section 7.1.3 of RSS-GEN** This Device complies with Industry Canada License-exempt RSS standard(s). Operation is subject to the following two conditions: 1) this device may not cause interference, and 2) this device must accept any interference, including interference that may cause undesired operation of the device. Cet appareil est conforme avec Industrie Canada RSS standard exemptes de licence(s). Son fonctionnement est soumis aux deux conditions suivantes: 1) ce dispositif ne peut causer des interférences, et 2) cet appareil doit accepter toute interférence, y compris les interférences qui peuvent causer un mauvais fonctionnement du dispositif.

This radio transmitter 6982A-YRHCPZWOFM has been approved by Industry Canada to operate with the antenna types listed below with the maximum permissible gain indicated. Antenna types not included in this list, having a gain greater than the maximum gain indicated for that type, are strictly prohibited for use with this device.

Le présent émetteur radio 6982A-YRHCPZWOFM a été approuvé par Industrie Canada pour fonctionner avec les types d'antenne énumérés ci-dessous et ayant un gain admissible maximal. Les types d'antenne non inclus dans cette liste, et dont le gain est supérieur au gain maximal indiqué, sont strictement interdits pour l'exploitation de l'émetteur.

CAN ICES-3B/NMB-3B

## **Yale Locks & Hardware**

Product Support Tel 800.810.WIRE (9473) • [www.yalelocks.com](http://www.yalelocks.com)

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**YALE**, with its unique global reach and range of products, is the world's favorite lock  
– the preferred solution for securing your home, family and personal belongings.

**ASSA ABLOY** is the global leader in door opening solutions,  
dedicated to satisfying end-user needs for security, safety and convenience.