Partner: Yale
Model: Lock
Device Type: Door Lock

CRESTRON CERTIFIED **INTEGRATED** PARTNER

GENERAL INFORMATION

SIMPLWINDOWS NAME:	Yale Lock v1.4
CATEGORY:	Miscellaneous
VERSION:	1.4
SUMMARY:	Provides control and monitoring of the Yale Door lock via infiNET EX.
GENERAL NOTES:	This module will control and monitor the functions of all of Yale's "YRD" Deadbolt Models and "YRL" Lever Lock Models. The lock must have integrated infiNET EX wireless communications. The following models apply: • CLK-YL-YRD240-CR • CLK-YL-YRL210-CR • CLK-YL-YRD210-CR • CLK-YL-YRD220-CR • CLK-YL-YRL220-CR
CRESTRON HARDWARE REQUIRED:	2-Series Processor, C2COM3, 3-Series Processor, infiNET EX gateway.
SETUP OF CRESTRON HARDWARE:	Yale Door lock definition must be included in the SimpWindows project.
VENDOR FIRMWARE:	v1.003.xxxx (the x values represent the lock firmware, not the RF radio firmware). Note: This firmware can be determined by using the "REP" command while in the Crestron Toolbox's console view or by using the infiNET EX Diagnostic tool in Toolbox while connected to the Crestron gateway
VENDOR SETUP:	Door locks must have integrated infiNET EX wireless communications and be acquired to a Crestron infiNET EX gateway.
CABLE DIAGRAM:	N/A

CONTROL:

<Lock/Unlock>	D	Pulse to lock or unlock the door lock.
Select_User_ID	D	Pulse to display numeric keypad to enter a User ID to edit.
Edit_User_Name	D	Pulse to display keyboard to enter a User Name that will be associated with the currently selected User ID.
Edit_User_PIN	D	Pulse to display numeric keypad to enter a User PIN that will be associated with the currently selected User ID.
Selected_User_Enable	D	Pulse to enable the currently selected User ID.

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Selected_User_Disable	D	Pulse to disable the currently selected User ID.
Selected_User_Delete	D	Pulse to delete the selected User ID's User Name and User PIN information.
Set_Volume_<Silent/Low/High>	D	Pulse to set volume. Must pulse "Send Parameters Update" for change to take effect.
Set_Auto_Relock_Mode_<On/Off>	D	Pulse to enable or disable auto-relocking of the door lock after successfully unlocking. Must pulse "Send Parameters Update" for change to take effect.
Set_Relock_Time_<Up/Down>	D	Press to adjust auto-relock time. Must pulse "Send Parameters Update" for change to take effect.
Set_Relock_Time_In	A	Use to hard-code the relock time upon system startup. Must pulse "Send Parameters Update" for change to take effect.
Set_Wrong_Keypad_Attempt_Limit_<Up/Down>	D	Press to set number of failed PIN code attempts before the lock shuts down and disables keypad operation. Must pulse "Send Parameters Update" for change to take effect.
Set_Wrong_Keypad_Attempt_Limit_In	A	Use to hard-code the set wrong keypad attempt limit upon system startup. Must pulse "Send Parameters Update" for change to take effect.
Set_Language_<English/French/Spanish>	D	Pulse to set language. Must pulse "Send Parameters Update" for change to take effect. Must pulse "Send Parameters Update" for change to take effect.
Set_Attempt_Limit_Shut_Down_Time_<Up/Down>	D	Press to adjust how long the lock will be shut down and keypad disabled after reaching the wrong keypad attempt limit. Must pulse "Send Parameters Update" for change to take effect.
Set_Attempt_Limit_Shut_Down_Time_In	A	Use to hard-code the set attempt limit shut down time upon system startup. Must pulse "Send Parameters Update" for change to take effect.
Set_Operating_Mode_<Normal/Vacation/Privacy>	D	Pulse to set operating mode (Normal, Vacation - All PIN codes will be disabled, Privacy - This deactivates the keypad and sound). Must pulse "Send Parameters Update" for change to take effect.
<Enable/Disable>_One_Touch_Locking_Mode	D	Pulse to enable or disable locking the door lock by touching the keypad. Must pulse "Send Parameters Update" for change to take effect.
<Enable/Disable>_Privacy_Mode_Button	D	Pulse to enable or disable the door lock's privacy mode button. Must pulse "Send Parameters Update" for change to take effect.
<Enable/Disable>_Inside_Cover_LED_Mode	D	Pulse to enable or disable the inside cover LED. Must pulse "Send Parameters Update" for change to take effect.
Send_Parameters_Update	D	Pulse to send any updated configuration mode settings to the lock. Must be done within 15s of changing a configuration setting.

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Get_Parameters	D	Pulse to get the systems configuration settings.
Get_Status	D	Pulse to retrieve lock status (configuration, battery level and lock information) and to set the Alarm indicator to OK.
Keyboard_Clear	D	Pulse to clear the User Name submission that will be associated with the currently selected User ID.
Keyboard_Shift	D	Pulse to enable/disable the shift function when entering a User Name that will be associated with the currently selected User ID when submitted.
Keyboard_Caps_Lock	D	Pulse to enable/disable the caps lock function when entering a User Name that will be associated with the currently selected User ID when submitted.
Keyboard_*	D	Pulse to enter a User Name that will be associated with the currently selected User ID when submitted.
Numeric_Keypad_*	D	Pulse to enter User ID or PIN code to submit.
Keyboard_Submit	D	Pulse to submit the User ID, User Name or User PIN entered using the keyboard or numeric keypad signals.
Keyboard_Close	D	Pulse to close the keyboard or numeric keypad subpages.
To_Module_User_ID	S	Receives User ID information from Multi-Lock Setup module.
To_Module_User_Name	S	Receives User Name information from Multi-Lock Setup module.
To_Module_User_PIN	S	Receives User PIN information from Multi-Lock Setup module.
To_Module_Set_User_PIN	D	Receives set User PIN from Multi-Lock Setup module.
To_Module_User_Delete	D	Receives User Delete from Multi-Lock Setup module.
{{Yale_Lock_(Generic)_>>_DATA_TO_MODULE}}	S	Serial information returning from the lock definition.

FEEDBACK:

Is_<Locked/Unlock>	D	Indicates that the door lock is currently locked or unlocked.
Current_Status_Text	S	Displays the current lock status (locked or unlocked).
Lock_Command_Sent_Please_Wait	D	Indicates that the module is waiting for a response after sending a "Lock" or "Unlock" command to the lock.
Lock_Event_Text	S	Displays the most recent lock event that occurred.

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Display_User_ID_Entry_Subpage	D	Latches high to display the numeric keypad subpage.
Display_User_Name_Entry_Subpage	D	Latches high to display the keyboard subpage.
Display_User_PIN_Entry_Subpage	D	Latches high to display the numeric keypad subpage.
Selected_User_ID_Text_Out	S	Displays the current User ID being edited.
Selected_User_Name_Text_Out	S	Displays the current User Name being edited.
Selected_User_PIN_Text_Out	S	Displays the current User PIN being edited.
Selected_User_Is_<Enabled/Disabled>	D	Indicated that the selected user is enabled or disabled.
User_Event_Text	S	Displays the most recent user event that occurred.
Volume_Is_<Silent/Low/High>	D	Indicates the current volume mode.
Auto_Relock_Mode_Is_<On/Off>	D	Indicates that the auto relock mode is on or off.
Auto_Relock_Time_Text	S	Displays the auto relock time setting.
Wrong_Keypad_Attempt_Limit_Text	S	Displays the wrong keypad attempt limit setting.
Language_Is_<English/French/Spanish>	D	Indicates the current language.
Attempt_Limit_Shut_Down_Time_Text	S	Indicates how long the lock will be shut down and keypad disabled after the wrong keypad attempt limit is reached.
Operating_Mode_Status_Is_<Normal/Vacation/Privacy>	D	Indicates the operating mode status.
One_Touch_Locking_Mode_Is_<Enabled/Disabled>	D	Indicates that one touch locking mode is enabled or disabled.
Privacy_Mode_Button_Mode_Is_<Enabled/Disabled>	D	Indicates that the privacy mode button is enabled or disabled.
Inside_Cover_LED_Mode_Is_<Enabled/Disabled>	D	Indicates that the inside cover LED is enabled or disabled.
Display_Send_Parameter_Update	D	Latches high to indicates that a parameter was changed and is used to display the "Send Parameters Update" button.
Send_Parameters_Please_Wait	D	Indicates that paramaters have been sent to the door lock and to wait for update to complete.
Master_PIN_Code_Was_Changed	D	Indicates that the master PIN code was changed.
Locked_Remotely	D	Indicates that the door lock was locked remotely.

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Locked_By_Key_Or_Thumbturn	D	Indicates that the door lock was locked using a key or thumbturn.
Locked_By_PIN	D	Indicates that the door lock was locked by PIN.
Locked_By_One-Touch	D	Indicates that the door lock was locked by one-touch.
Locked_By_Auto_Relock	D	Indicates that the door lock was locked by auto relock.
Unlocked_Remotely	D	Indicates that the door lock was unlocked remotely.
Unlocked_By_Key_Or_Thumbturn	D	Indicates that the door lock was unlocked using a key or thumbturn.
Unlocked_By_PIN	D	Indicates that the door lock was unlocked by PIN.
Alarm_Status_Text	S	Displays the current alarm status.
Alarm_OK	D	Indicates that there is no alarm triggered or it has been cleared.
Alarm_Deadbolt_Jammed	D	Indicates that the deadbolt is jammed.
Alarm_Battery_Was_Replaced	D	Indicates that one or more batteries were replaced.
Alarm_Wrong_Keypad_Attempt_Limit_Reached	D	Indicates that the wrong keypad attempts limit has been reached.
Alarm_Outside_Cover_Removed	D	Indicates that the outside cover was removed.
Alarm_Low_Battery	D	Indicates that the battery is low.
Alarm_Critical_Battery	D	Indicates that the battery is critical.
Alarm_Battery_Too_Low_To_Operate	D	Indicates that the battery is too low to operate.
Alarm_Event_Text	S	Displays the last alarm event that occurred.
Locked_By_User_ID	A	Indicates the User ID that recently locked the door lock.
Unlocked_By_User_ID	A	Indicates the User ID that recently unlocked the door lock.
Lock_Product_ID_Text	S	Displays the lock product ID.
Lock_(Not_Radio)_Firmware_Version_Text	S	Displays the lock (not radio) firmware version. The radio firmware version can be determined by using the Crestron Toolbox.
Lock_Type_Text	S	Displays the lock type.
Battery_Level_Gauge	A	Indicates the battery level. For a gauge object on touchpanel (0d-65535d)

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Battery_Level_Text	S	Displays the current battery level (0%-100%).
Keyboard_Text	S	Displays text entered by using the keyboard of number keypad signals.
Keyboard_Shift_Is_On	D	Indicates that the keyboard shift is enabled.
Keyboard_Caps_Lock_Is_On	D	Indicates that the keyboard caps lock is enabled.
Lock_Name_Text	S	Displays the lock name entered in the parameters field.
{{DATA_FROM_MODULE_>>_Yale_Lock_(Generic)}}	S	Serial information sent to the lock definition.

TESTING:

OPS USED FOR TESTING:	2-Series: v4.007.0004 3-Series: v1.005.0007
SIMPL WINDOWS USED FOR TESTING:	v4.03.20
DEVICE DB USED FOR TESTING:	72.00.001.00
CRES DB USED FOR TESTING:	54.00.012.00
SYMBOL LIBRARY USED FOR TESTING:	982
SAMPLE PROGRAM:	2 Series: Yale Lock v1.4 Demo PRO2.smw 3 Series: Yale Lock v1.4 Demo MC3.smw
REVISION HISTORY:	v1.0 – Original release. v1.4 – Fixed an issue where the number of users was limited in the module to 50 users but the Yale lock allows 250 users.

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