

Crestron FW 1.000.0115 Notes (compatible W1.1.1)

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JC

Acquire + Crestron FW Update Steps:

1. Send **ACQUIRE START SG** first before you press button.
2. Press SET (middle) button **three times + one 10s hold**.
 1. You might see it flash white once before 10 seconds are up, but continue to hold the button until there is another flash around 10 seconds.
3. When you see the white LED light up for a long pause, that means it acquired to Gateway and you should see the shade pop up on the GW screen.
4. Send **REP** command to check status
5. Change RFID: **RFRCON 01 SUBGID [newRFID] SG**
6. Set Serial Number: **RFRCON xx SERIALNUMBER [s/n] SG**
7. Check motor status using **RFRCON xx MDBGINFO SG**

```
CEN-GW1>RFRCON 23 MDBGINFO SG

CEN-GW1>
Upper Limit:      008007f5
Lower Limit:      00800420
Position:         00800430
Err Flgs:         0h
Raise Direction:  CCW
Reverse:          Y
Mode:             Normal

Batt Voltage:     52
Motor SW Ver:     010101
Mtr Stopped:      Y
Mtr Running:      N
Mtr Status:       0 [0: stopped, 1: raising, 2: lowering]
Remote Status:    0 [0: ready, 1: success, 2: interrupted, 3: timeout]
Speed (RPM):      18
App Ver:          21041701

Number Raise Count:  0
Number Lower Count:  0
Number Cycle Count: 470
CSM-QMTDC-163-1-SG-RC>

CEN-GW1>
```

8. Make sure the upgrade file is in **FileZilla** /firmware folder.
9. If batt level is > 25%, you can update FW using **SEENBURNCLIENTFW xx [file_name.bin]**



When testing, see motor debug information using **RFRCON xx**
MDBGINFO SG console command.

```
CEN-GW1>acquire start sg
SG acquire started

CEN-GW1>[FAh][B3h] Active      00124b0029f7c6da 39F7C6DA Y 01 Y CSM-QMTDC-163-3-SG-RC [v1.001.0115, #39F7C6DA] [FBh]

CEN-GW1>acquire stop sg
SG acquire stopped

CEN-GW1>rfrcon 01 subgid 24 sg

CEN-GW1>[FAh][B3h] Active      00124b0029f7c6da 39F7C6DA Y 24 Y CSM-QMTDC-163-3-SG-RC [v1.001.0115, #39F7C6DA] [FBh]
[FAh][B3h] Active      00124b0029f7c6da 39F7C6DA Y 24 Y CSM-QMTDC-163-3-SG-RC [v1.001.0115, #39F7C6DA] [FBh]

[CTR] Device ID chg (0/0000h)
SUBG ID set to 24h
CSM-QMTDC-163-1-SG-RC>

CEN-GW1>

CEN-GW1>

CEN-GW1>rfrcon 24 mdbginfo sg

CEN-GW1>
Upper Limit:      00800d81
Lower Limit:      00800668
Position:          00800669
Err Flgs:          0h
Raise Direction:  CCW
Reverse:           Y
Mode:              Normal

Batt Voltage:      68
Motor SW Ver:      010101
Mtr Stopped:       Y
Mtr Running:       N
Mtr Status:        Stopped
Speed (RPM):       18
App Ver:           21041701

Number Raise Count: 0
Number Lower Count: 0
Number Cycle Count: 0
CSM-QMTDC-163-1-SG-RC>
```



RFRCON xx HELP SG Console Command

This command prints out all possible console commands available. I highlighted commands that will be helpful for motor control testing.

CEN-GW1> RFRON 24 HELP SG

Commands:

Note: all numeric parameters are in hex unless noted

ACQUIRE	[START STOP] [ch] Display/enter/exit acquire mode
REBOOT	Reboot the device
RSSI	Display RSSI data
STATUS	Display general device status info
SUBGID	[ID] Display/set device SUBG ID
TIME	Display current time/date
UNACQUIRE	Unacquire from gateway
VER	Display device version string
?	This help menu
RESTORE	Restore Factory Defaults
RAISE	Raise Shade
LOWER	Lower Shade
OPEN	Open Shade
CLOSE	Close Shade
STOP	Stop Shade
SETUL	Set Upper Limit
SETLL	Set Lower Limit
GETUL	Get Upper Limit
GETLL	Get Lower Limit
DELLIM	Delete limits
GETMTRDATA	Get Wistar Motor Data
PAIRREM	Pair Wistar Remote
DELREM	Delete Wistar Remote
MDBGINFO	Shade Motor Info
MDBGCNTR	Shade Counters



SHOWUI	Display UI state
GOTOPOS	Move shade to position
MTRUPDWN	Move motor one time
JOGUP	Jog Up Limit
JOGDN	Jog Down Limit
WIGGLE	Test Wiggle
CYCLE	Cycle the Shade
CYCLECNT	Cycle Count
ENDCYCLE	End the Cycling Test
MOVEBYTICKS	Rotate by number of ticks
CSMDEBUG	Set debug mode
CSMERRLOG	Show Error Log
DIAGNOSTICS	Enter/Exit Diagnostics
UPTIME	Time since bootup
GETPOSPERC	Get Position in percent
GETPOS	Get Current Position
MTRSTAT	Get motor status
MTRVER	Get motor sw ver
GETSPEED	Get Motor Speed
SETSPEED	Get Motor Speed
GETDIR	Get motor dir
SETDIR	Set motor dir
PRODTEST	SET prodtest flag
LEDTEST	Test FP LEDs
BTNTEST	Test FP Buttons
TEMP	Temperature
FLASHTEST	Test External Flash
GOSTANDBY	Enable/Disable Power Policy
REBOOTMTR	Reboot Wistar Motor
SHADEINFO	Shade information
GETADC	Get Raw ADC Value for the Ch
BATTLEVEL	Battery Level
BATTCAP	Battery capacity
PSRC	Power source
BATTLIMIT	Battery limit
CURLOG	Current log print
CURFLUSH	Current log flush

CURSTEP	Current log step
MDBGPRINT	Periodic Motor Dbg Print
DEBUGCURRENT	Shows debug current
CAPTURE	Starts current capture
OCTHON	OCTH ON
OCTHOFF	OCTH OFF
OCTHCLEAR	OCTH CLEAR
FLASHSLEEP	Put Flash Sleep
MASSEREXTFLASH	Mass Erase Ext Flash
READNVPARAM	Get shade spec. NV Data
SHADEPARAMS	Read loaded NV Params
NVSTATUS	Read Various NV Stats
WISTARMSG	Send message to Wistar
TESTLEDBLU	Test blue LED
TESTLEDRED	Test red LED
TESTLEDGRN	Test green LED
TESTLEDWHITE	Test white LED
SHADEFLAGS	Print shade flags
WISTAROTA	Initiate Host OTA Cmd (NOT AVAILABLE YET FOR TESTING)
GID	Group ID list

RFRCON xx PAIRREM SG Console Command

You can pair remote using **RFRCON xx PAIRREM SG** console command.

Note: Please send command and press STUDY button on back of remote right away (timeout is about 3 seconds from what I've observed...)



Setting Limits w/ Buttons

Below are screenshots of SETTING LIMITS WITH BUTTONS. You can see the different limit states **highlighted** as we set limits.

1. Press middle button for 4 seconds until LED turns red/green alternating.
2. Press Up button once to set Upper Limit
3. Press Up to desired limit position.
4. Press middle button for 4 seconds to SET limit.
5. Press Down to desired limit position.
6. Press middle button for 4 seconds to SET limit.

```
[FAh][B3h] Active      00124b0029f7c6da 39F7C6DA Y 24 Y CSM-QMTDC-163-3-SG-RC [v1.001.0115, #39F7C6DA] [FBh]

CEN-GW1>
CEN-GW1>
CEN-GW1>rfrcon 24 mdbginfo sg

CEN-GW1>
Upper Limit:    00ffff00
Lower Limit:    000000ff
Position:       00800000
Err Flgs:       0h
Raise Direction: CCW
Reverse:        1
Mode:           No Limits
Batt Voltage:   100
Motor SW Ver:   010101
Mtr Stopped:    Y
Mtr Running:    N
```

```
CEN-GW1>rfrcon 24 mdbginfo sg

CEN-GW1>
Upper Limit:    00ffff00
Lower Limit:    000000ff
Position:       00800000
Err Flgs:       0h
Raise Direction: CCW
Reverse:        Y
Mode:           Enter Set Limits
Batt Voltage:   100
Motor SW Ver:   010101
Mtr Stopped:    Y
Mtr Running:    N
```

```
CEN-GW1>rfrcon 24 mdbginfo sg
```

```
CEN-GW1>
Upper Limit: 00ffff00
Lower Limit: 000000ff
Position: 00800000
Err Flgs: 0h
Raise Direction: CCW
Reverse: Y
Mode: Set-Lower
Batt Voltage: 100
Motor SW Ver: 010101
Mtr Stopped: Y
Mtr Running: N
```

```
CEN-GW1>rfrcon 24 mdbginfo sg
```

```
CEN-GW1>
Upper Limit: 00ffff00
Lower Limit: 007ffa15
Position: 007ffa0a
Err Flgs: 0h
Raise Direction: CCW
Reverse: Y
Mode: Set-Upper
Batt Voltage: 100
Motor SW Ver: 010101
Mtr Stopped: Y
Mtr Running: N
```

```
CEN-GW1>rfrcon 24 mdbginfo sg
```

```
CEN-GW1>
Upper Limit: 007fff9e
Lower Limit: 007ffa15
Position: 007ffa2
Err Flgs: 0h
Raise Direction: CCW
Reverse: Y
Mode: Normal
Batt Voltage: 100
Motor SW Ver: 010101
Mtr Stopped: Y
Mtr Running: N
```

Both limits set =
Normal Mode

Previous Solution Provided for Multiple RFID Problem

Here is the solution for Gateway problem mentioned in WhatsApp (multiple RFID 01):

1. Use **SETRFIDBYUUID [newRFID] [UUID] SG** command to change RFID.
 - a. newRFID = any RFID from 3 – FE (choose a unique ID for each motor)
 - b. UUID = first number next to Active/Inactive in REP command

The blue box shows where the UUID is located. And the yellow box shows you that the RFID was changed from 22 to 23 using the SETRFIDBYUUID console command.

```
CEN-GW1>REP
[02h] Inactive 00124b0029f812fb 39F812FB Y 29 Y CSM-QMIDC-163-1-SG [v1.001.0248, %2243CR002124] @SG
[02h] Inactive 00124b0029f7c6cf 39F7C6CF Y 21 Y CSM-QMIDC-163-1-SG-RC [v1.001.0113, %2335ATM00021] @SG
[02h] Inactive 00124b0029f7c6ea 39F7C6EA Y 26 Y CSM-QMIDC-163-1-SG [v1.001.0101, %202308010011] @SG
[02h] Active 00124b0029f7c6e7 39F7C6E7 Y 22 Y CSM-QMIDC-163-3-SG-RC [v1.001.0114, %2335ATM00014] @SG
[02h] Inactive 00124b001e1e83e4 3E1E83E4 Y 10 Y CSM-QMIDC-163-1-SG [v1.001.0303, #3E1E83E4] @SG
[02h] Inactive 00124b0029f7c6f0 39F7C6F0 Y 30 Y CSM-QMIDC-163-1-SG [v1.001.0112, %2335ATM00018] @SG
[02h] Inactive 00124b0029f7c690 39F7C690 Y 31 Y CSM-QMIDC-163-1-SG [v1.001.0301, %2335ATM00028] @SG
[02h] Inactive 00124b0029f7c76a 39F7C76A Y 32 Y CSM-QMIDC-163-1-SG [v1.001.0113, %2335ATM00025] @SG
[02h] Inactive 00124b0029f7c700 39F7C700 Y 34 Y CSM-QMIDC-163-3-SG-RC [v1.001.0114, %2335ATM00019] @SG
[02h] Inactive 00124b0029f7c70d 39F7C70D Y 33 Y CSM-QMIDC-163-1-SG-RC [v1.001.0113, %2335ATM00017] @SG
[02h] Inactive 00124b0029f7c75a 39F7C75A Y 15 Y CSM-QMIDC-163-3-SG-RC [v1.001.0114, %2335ATM00023] @SG
[02h] Inactive 00124b0029f7c6da 39F7C6DA Y 24 Y CSM-QMIDC-163-3-SG-RC [v1.001.0114, #39F7C6DA] @SG
[02h] Inactive 00124b0029f7c667 39F7C667 Y 09 Y CSM-QMIDC-163-3-SG-RC [v1.001.0114, #39F7C667] @SG

CEN-GW1>
CEN-GW1>
CEN-GW1>SETRFIDBYUUID 23 00124b0029f7c6e7 SG

CEN-GW1>[FAh][B3h] Active 00124b0029f7c6e7 39F7C6E7 Y 23 Y CSM-QMIDC-163-3-SG-RC [v1.001.0114, %2335ATM00014] [
[FAh][B3h] Active 00124b0029f7c6e7 39F7C6E7 Y 23 Y CSM-QMIDC-163-3-SG-RC [v1.001.0114, %2335ATM00014] [FBh]

CEN-GW1>
CEN-GW1>REP
[02h] Inactive 00124b0029f812fb 39F812FB Y 29 Y CSM-QMIDC-163-1-SG [v1.001.0248, %2243CR002124] @SG
[02h] Inactive 00124b0029f7c6cf 39F7C6CF Y 21 Y CSM-QMIDC-163-1-SG-RC [v1.001.0113, %2335ATM00021] @SG
[02h] Inactive 00124b0029f7c6ea 39F7C6EA Y 26 Y CSM-QMIDC-163-1-SG [v1.001.0101, %202308010011] @SG
[02h] Active 00124b0029f7c6e7 39F7C6E7 Y 23 Y CSM-QMIDC-163-3-SG-RC [v1.001.0114, %2335ATM00014] @SG
[02h] Inactive 00124b001e1e83e4 3E1E83E4 Y 10 Y CSM-QMIDC-163-1-SG [v1.001.0303, #3E1E83E4] @SG
[02h] Inactive 00124b0029f7c6f0 39F7C6F0 Y 30 Y CSM-QMIDC-163-1-SG [v1.001.0112, %2335ATM00018] @SG
[02h] Inactive 00124b0029f7c690 39F7C690 Y 31 Y CSM-QMIDC-163-1-SG [v1.001.0301, %2335ATM00028] @SG
[02h] Inactive 00124b0029f7c76a 39F7C76A Y 32 Y CSM-QMIDC-163-1-SG [v1.001.0113, %2335ATM00025] @SG
[02h] Inactive 00124b0029f7c700 39F7C700 Y 34 Y CSM-QMIDC-163-3-SG-RC [v1.001.0114, %2335ATM00019] @SG
[02h] Inactive 00124b0029f7c70d 39F7C70D Y 33 Y CSM-QMIDC-163-1-SG-RC [v1.001.0113, %2335ATM00017] @SG
[02h] Inactive 00124b0029f7c75a 39F7C75A Y 15 Y CSM-QMIDC-163-3-SG-RC [v1.001.0114, %2335ATM00023] @SG
[02h] Inactive 00124b0029f7c6da 39F7C6DA Y 24 Y CSM-QMIDC-163-3-SG-RC [v1.001.0114, #39F7C6DA] @SG
[02h] Inactive 00124b0029f7c667 39F7C667 Y 09 Y CSM-QMIDC-163-3-SG-RC [v1.001.0114, #39F7C667] @SG
```