# Crestron FW 1.000.0115 Notes (compatible W1.1.1)

Date: 10/17/23

JC

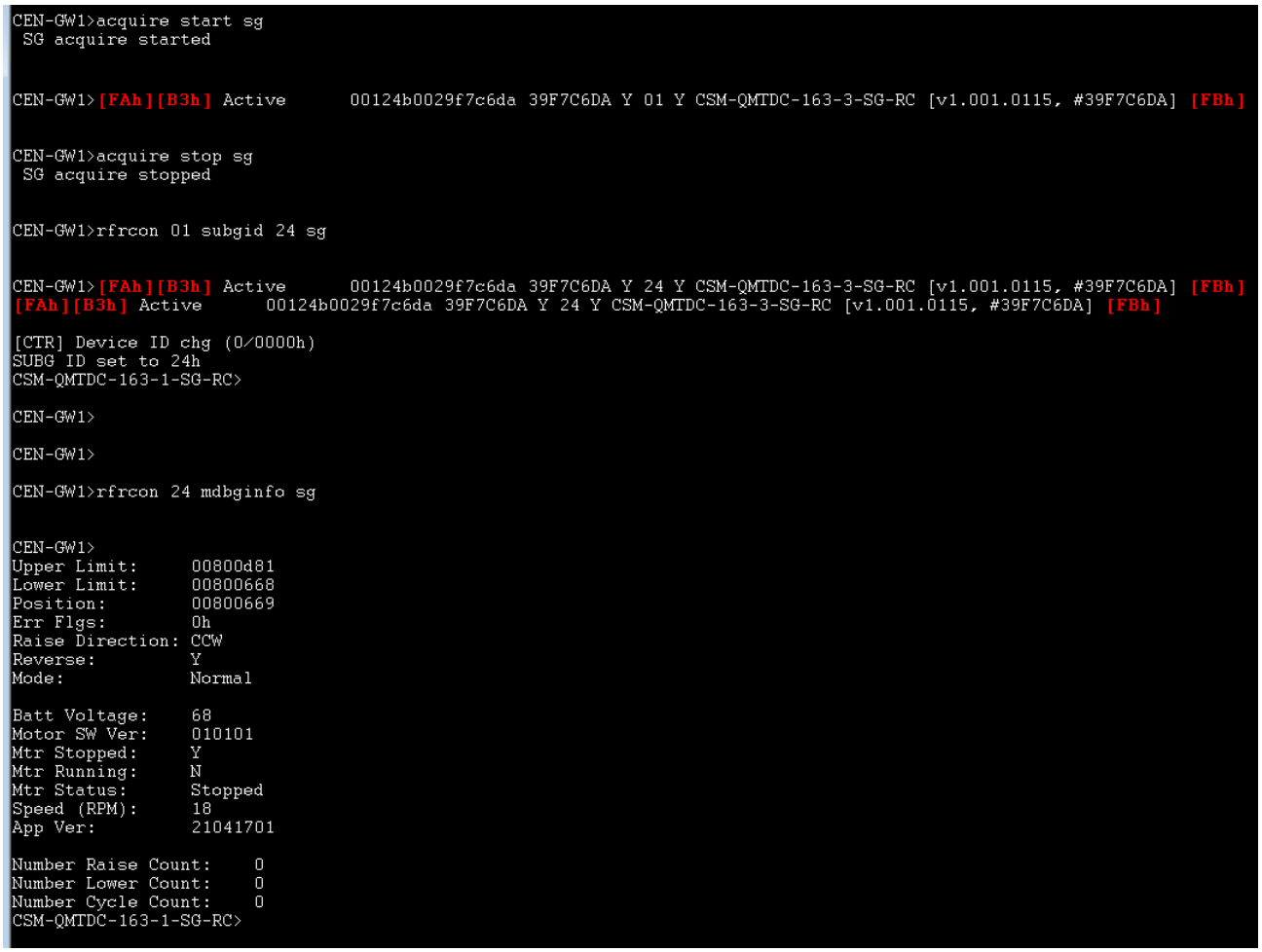
## Acquire + Crestron FW Update Steps:

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 **SENDBURNCLIENTFW xx [file_name.bin]**

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



## 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

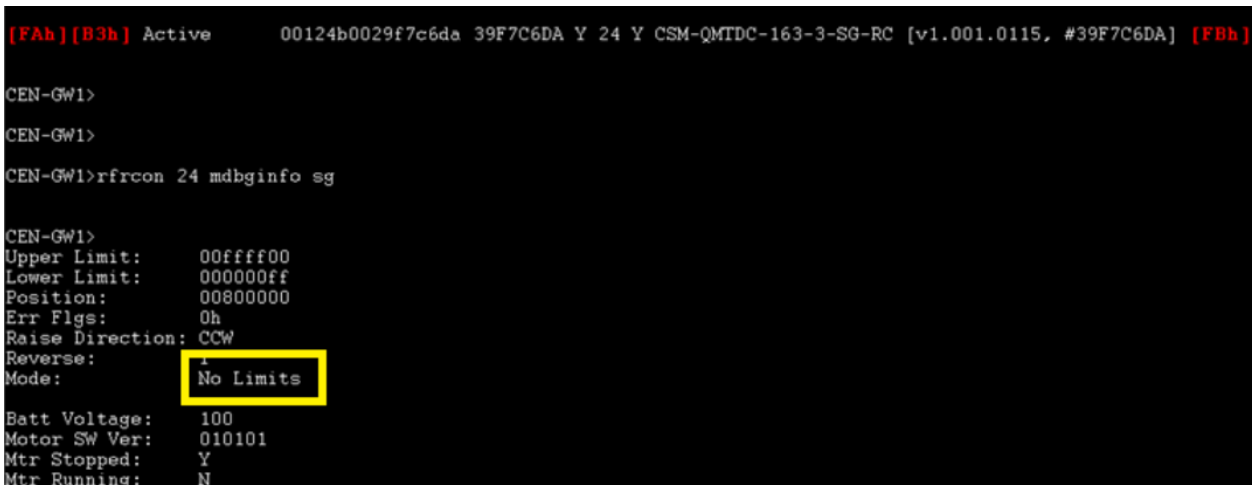
You can pair remote using **RFRCON xx PAIRREM SG** console command.

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.




```
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
```

```
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:        007fffa2
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

CRESTRON

## 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.