BONOLO V5 Air Quality Monitor

List of Commands

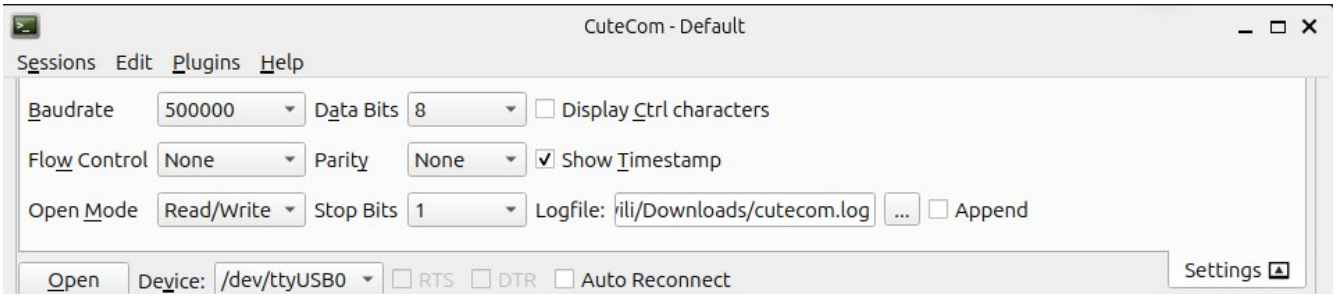
This file is compatible with the latest firmware at the date of the file. Newer commands may not be available in older firmware. Please update the firmware on your device accordingly.

Table of Contents

1. UART Port setting

To communicate with the unit through a UART terminal software application the following settings apply. See the screenshot example. See the document Bonolo V5 Software Guide for more.

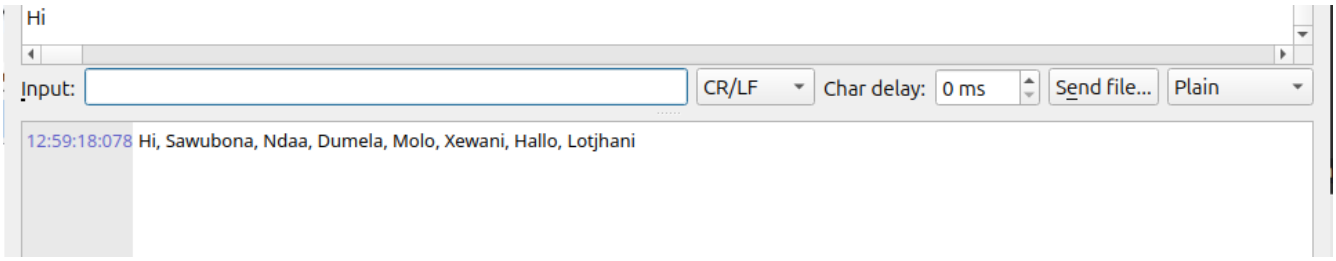
- Baudrate = 500 000, Data = 8 bits, Parity = None, Stop bit = 1, Flow control = None.



2. Check communication. “Hi”

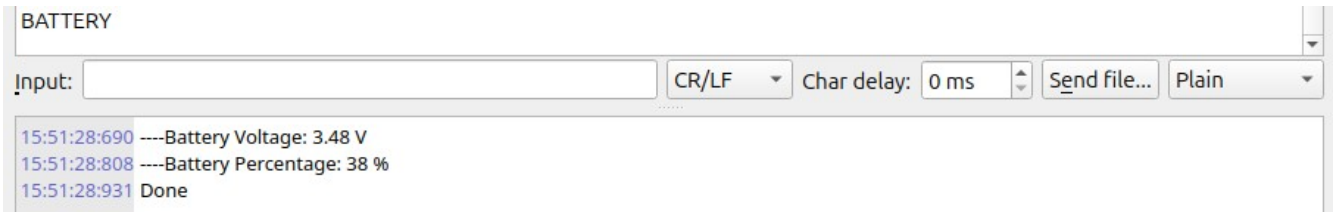
A basic command to test two way communication is given below.

Command: “Hi”



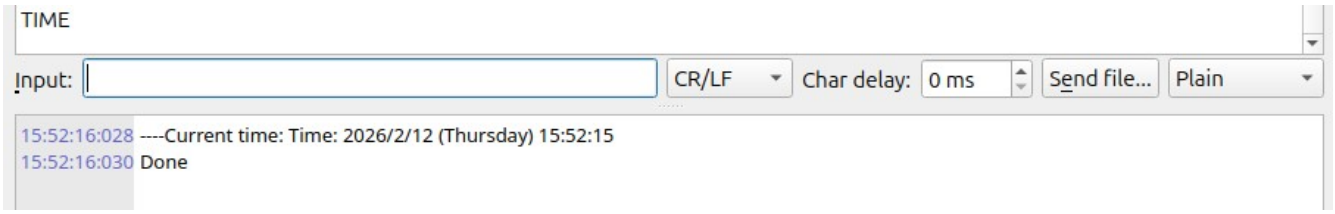
3. Check battery Level

Command: “BATTERY”



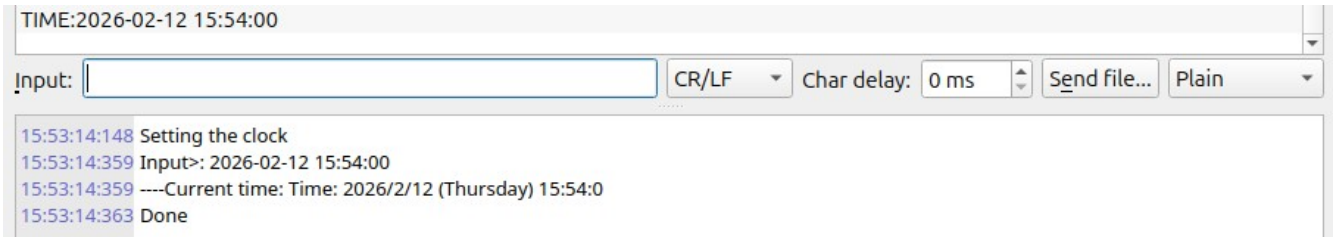
4. Check time setting

Command: “TIME”



5. Set time manually

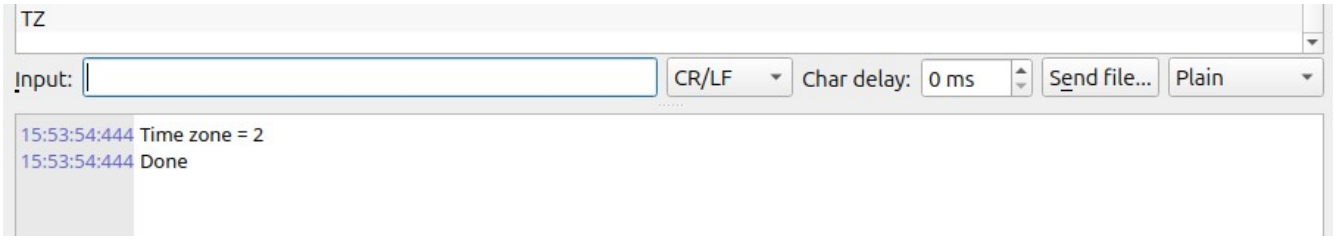
Command: “TIME:2026-02-12 15:54:00”



6. Set time through a WIFI connection

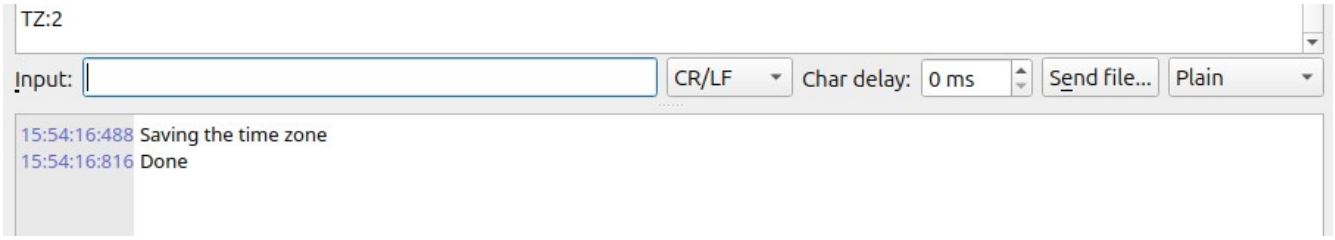
First check the time zone for the region.

Command: “TZ”



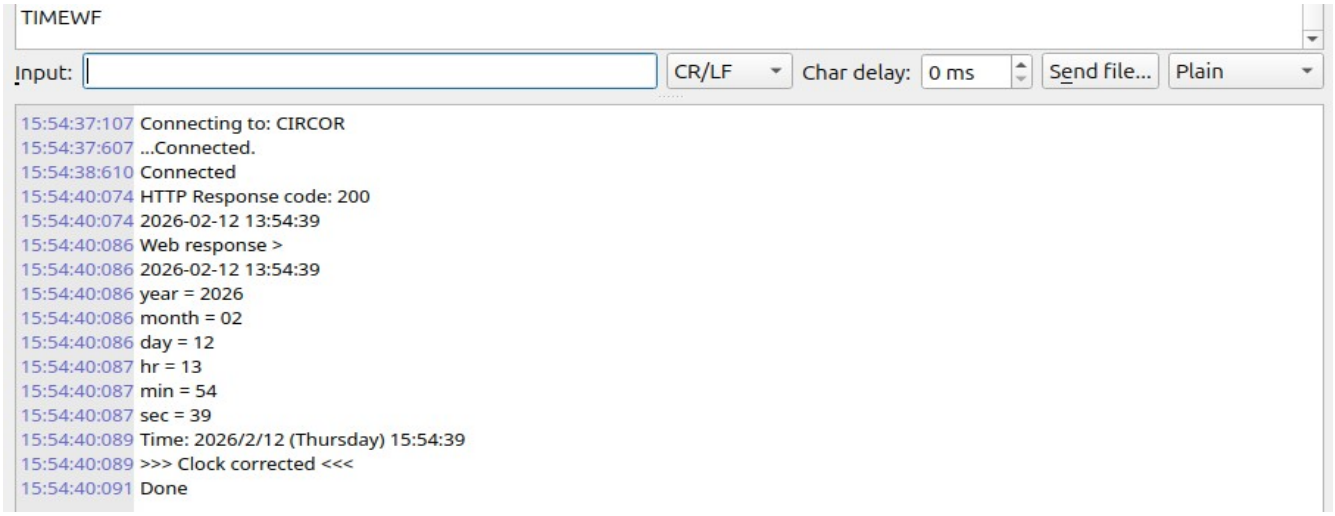
If the time zone is wrong, set it to the correct one. And check again

Command: “TZ:2”. Then Command “TZ” to check



Assuming the WIFI SSID and password are already set. Correct the time as follows.

Command: “TIMEWF”



See following chapters for how to set the SSID and password.

7. Set time through an LTE connection

First check the time zone for the region as indicated in the previous section.

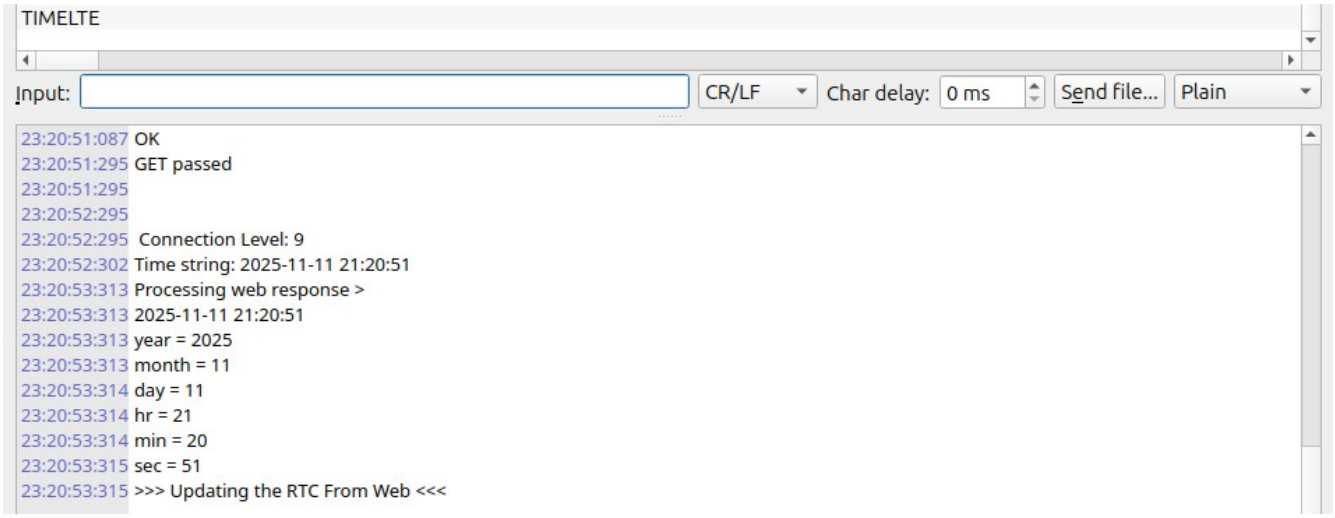
Command: “TZ”

If the time zone is wrong, set it to the correct one. And check again

Command: “TZ:2”. Then Command “TZ” to check

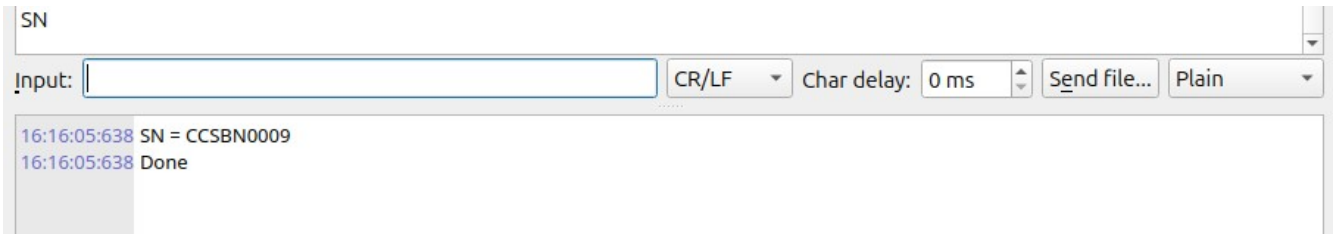
Assuming the there is a SIM card with network access and the Access Point Name is correct. Set the time as follows.

Command: “TIMELTE”



8. Check the serial number of the unit

Command: “SN”



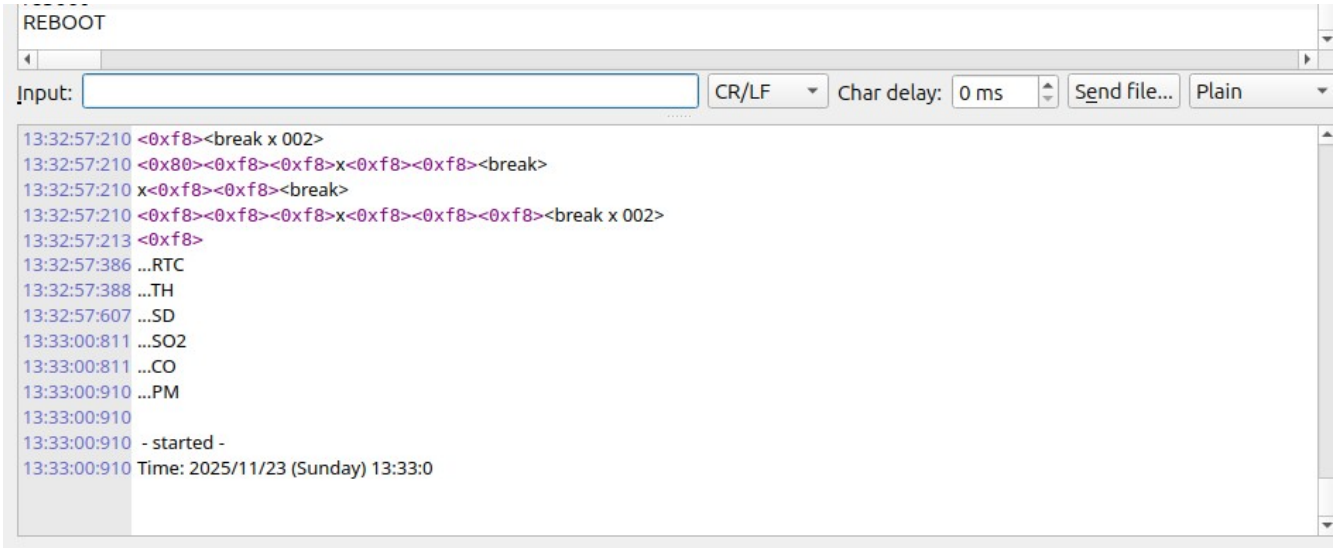
9. Test Sensors

Command: “SENSORS”

10. Rebooting the device

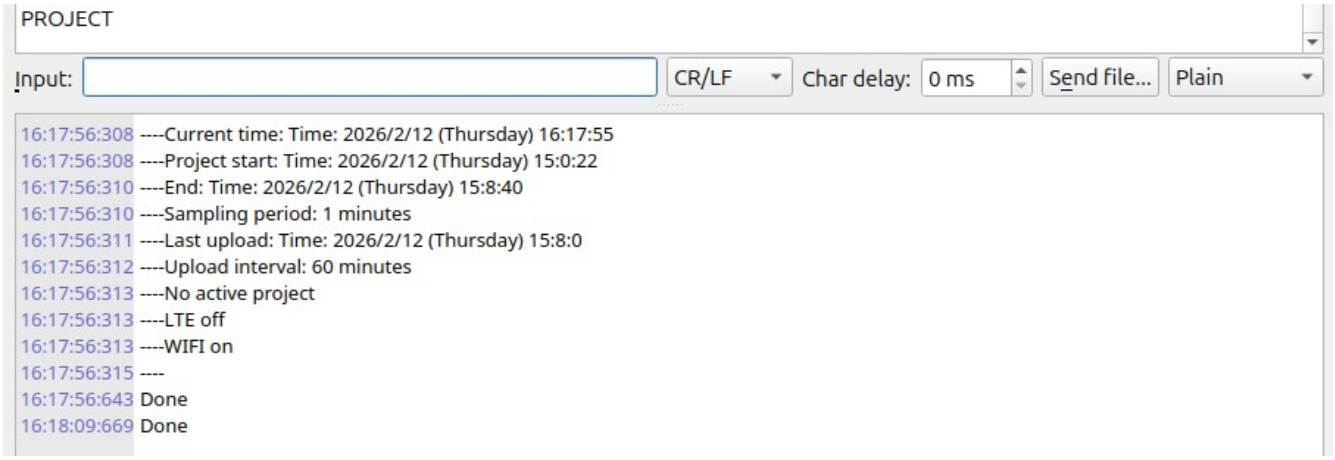
To reboot the unit use the following command. The project settings saved and will be active after reboot.

Command: “REBOOT”



11. Check the status of a project

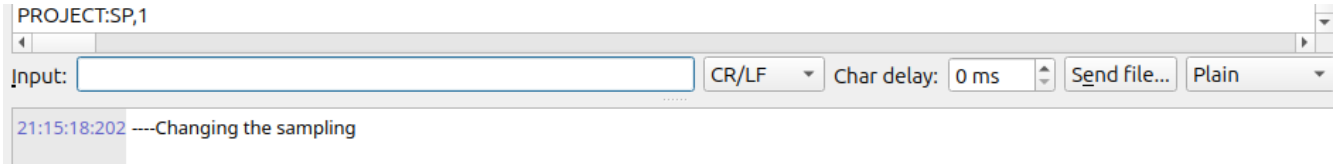
Command: “PROJECT”



12. Set a project’s sampling period

Command: “PROJECT:SP,1”

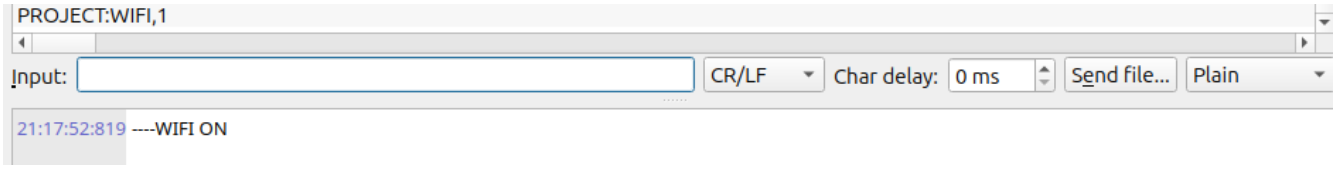
1 is the sampling period in minutes. Minimum 1, maximum 60. Use “PROJECT” to see the change.



13. Enable WIFI Uploads

Command: “PROJECT:WIFI,1”

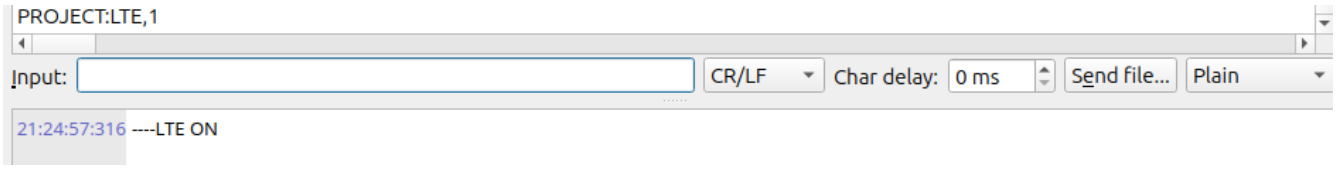
To disable the WIFI uploads change 1 to 0.



14. Enable LTE Uploads

Command: “PROJECT:LTE,1”

To disable the LTE uploads change 1 to 0.

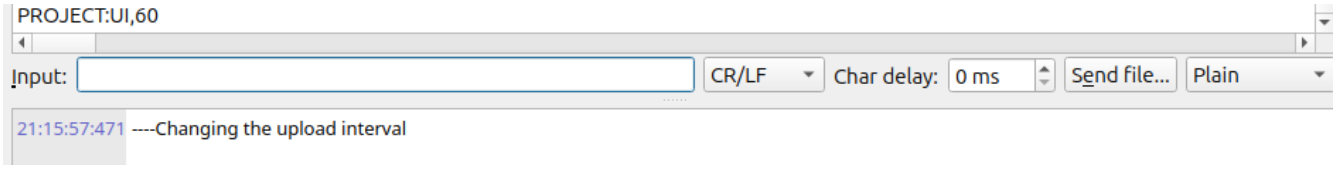


15. Set a project’s upload interval

If the project is set to upload samples. The upload interval can be set with the following command.

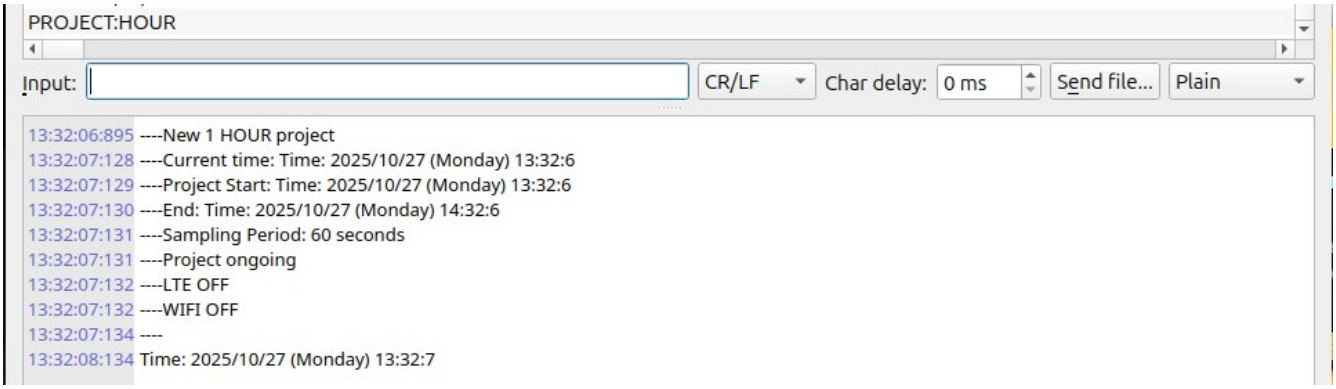
PROJECT:UI,60

Where 60 is the upload interval in minutes. Use “PROJECT” to see the change. The upload interval will only be displayed if either WIFI or LTE uploads are enabled.



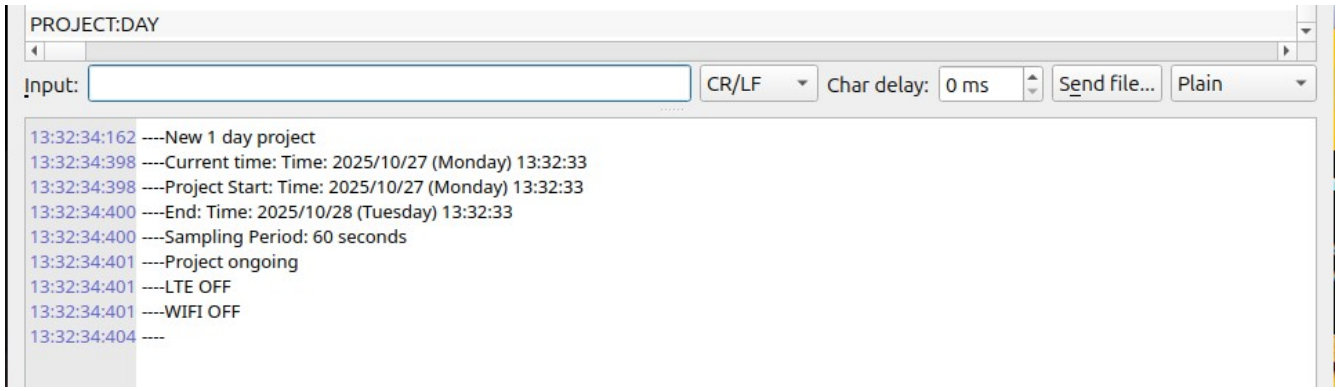
16. Start a one hour long project

Command: “PROJECT:HOUR”



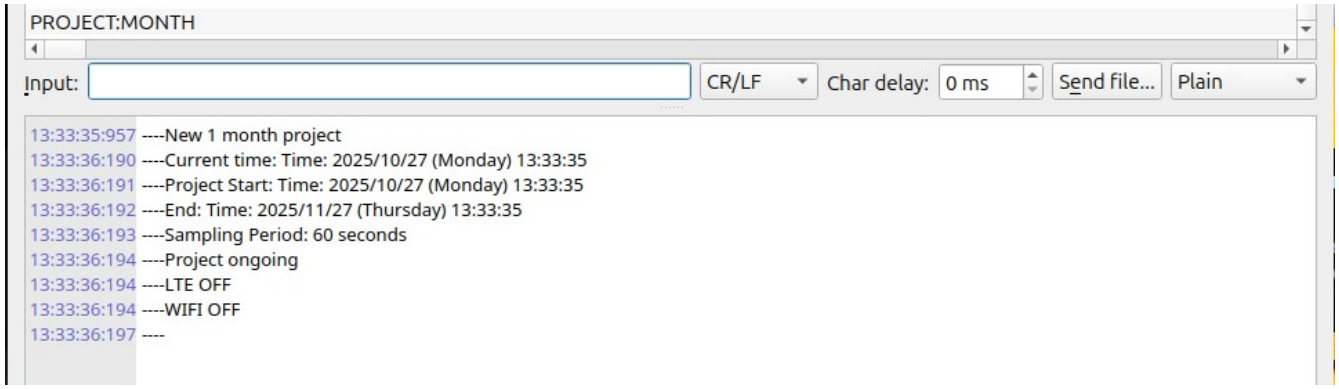
17. Start a one day long project

Command: “PROJECT:DAY”



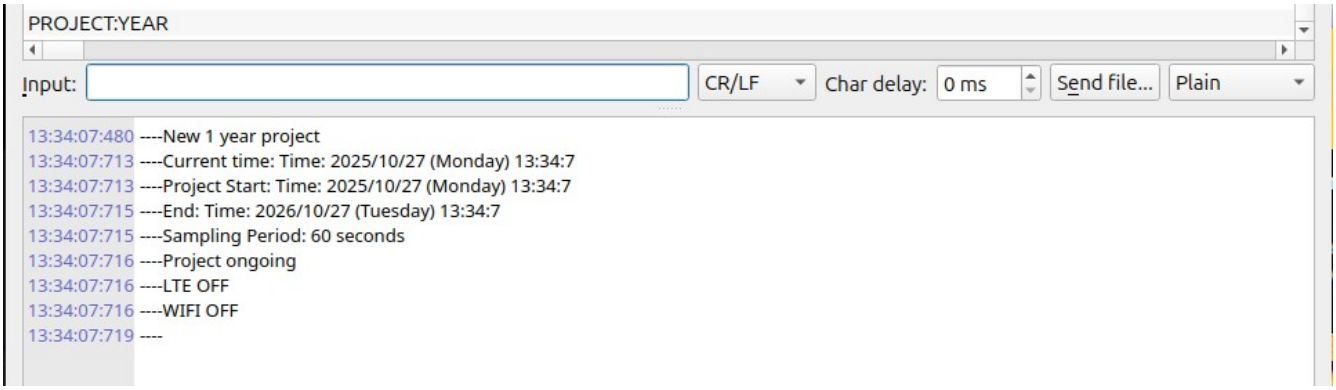
18. Start a one month long project

Command: “PROJECT:MONTH”



19. Start a one year long project

Command: “PROJECT:YEAR”

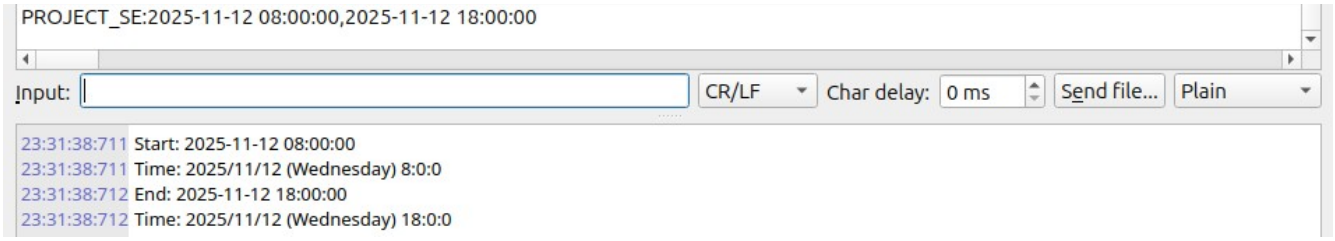


20. Start a project with a specific start and end date

Both dates must be in the future. The end date must be at-least an hour ahead of the start date.

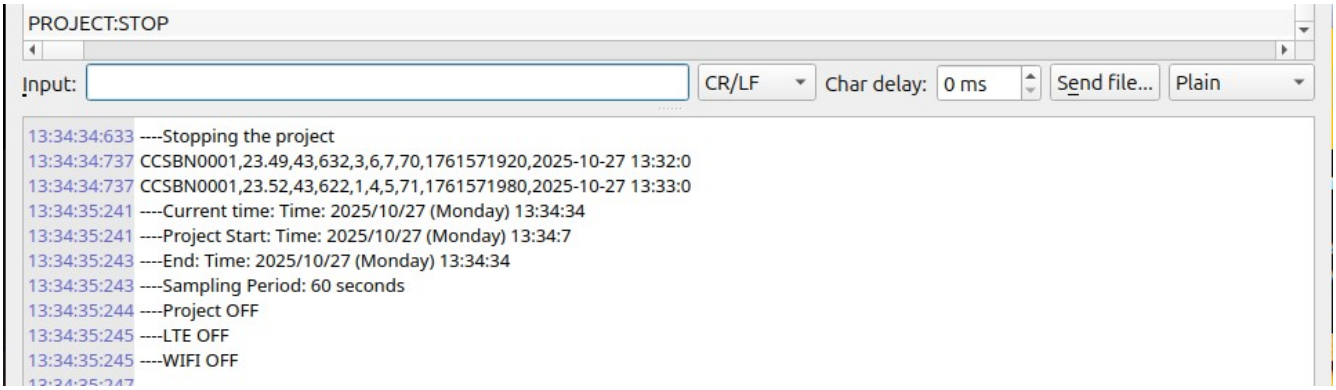
Where start date = 2025-11-11 08:00:00 and end date date = 2025-11-11 18:00:00.

Command: “PROJECT_SE:2025-11-12 08:00:00,2025-11-12 18:00:00”



21. Stop a project

Command: “PROJECT:STOP”

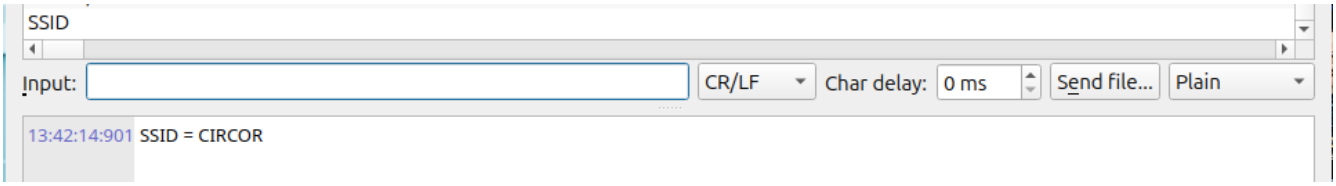


Note that a project will also stop when the end date is reached or when the battery is depleted.

22. Check or set the WIFI SSID and password

To check the SSID.

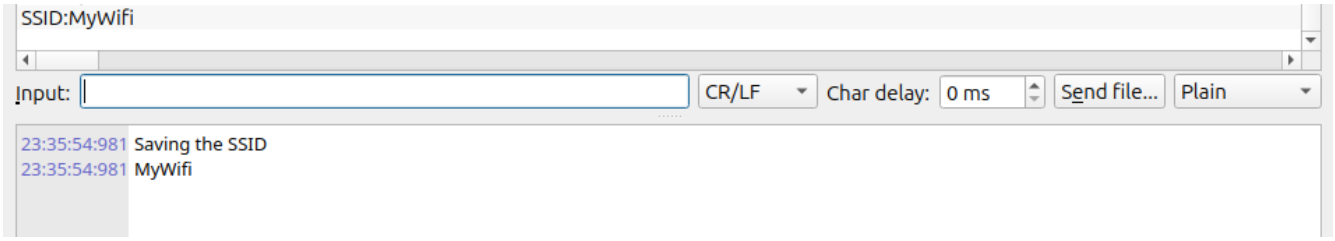
Command: “SSID"



The password will not be displayed.

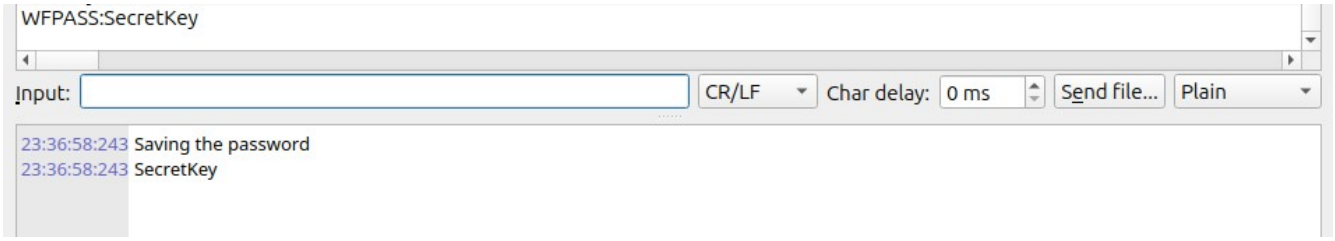
To set a new SSID.

Command: “SSID:MyWifi”, where MyWifi is the new SSID.



To set the password for the new SSID.

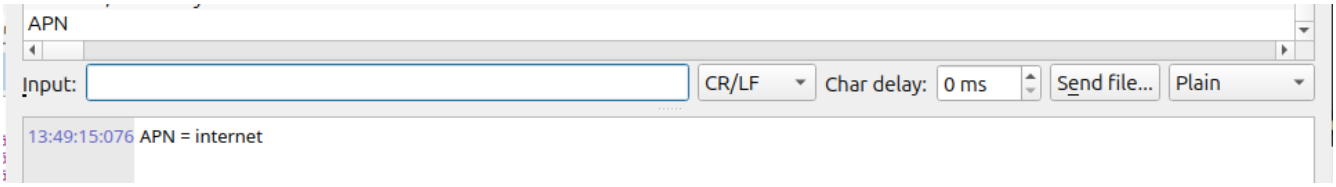
Command: “WFPASS:SecretKey”, where SecretKey is the password for the set SSID.



23. Check or set the LTE access point name (APN)

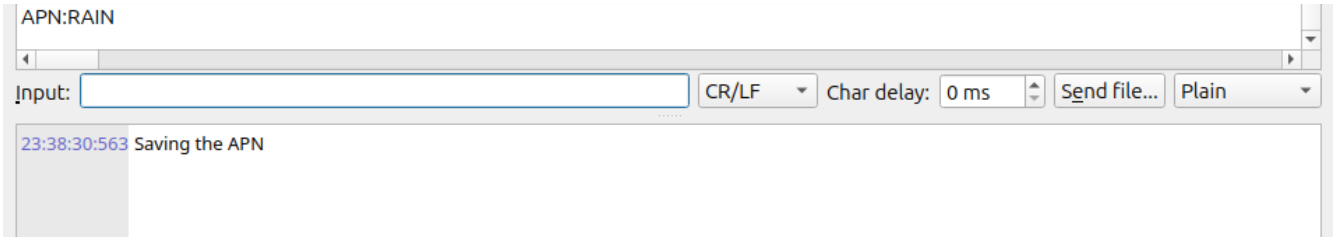
To check the APN.

Command: “APN”



To set a new access point name, where RAIN is the access point name for the SIM card.

Command: “APN:RAIN”

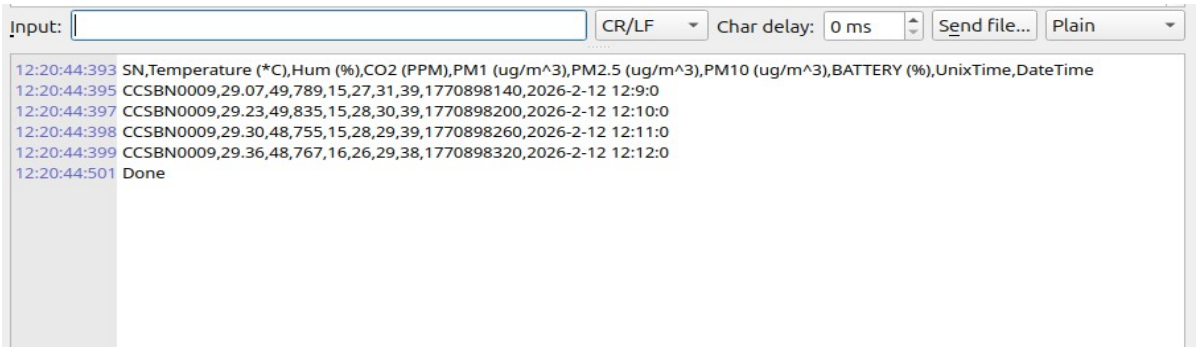


24. Download data directly

NB: Online access for internet connected devices is available at: monitor.circor.co.za

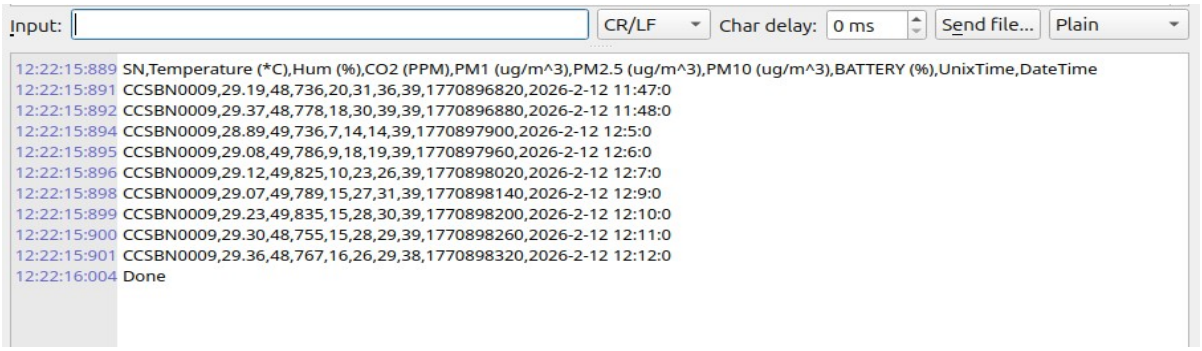
Download data for the last project only

Command: “DATA”



Download all available data for the device

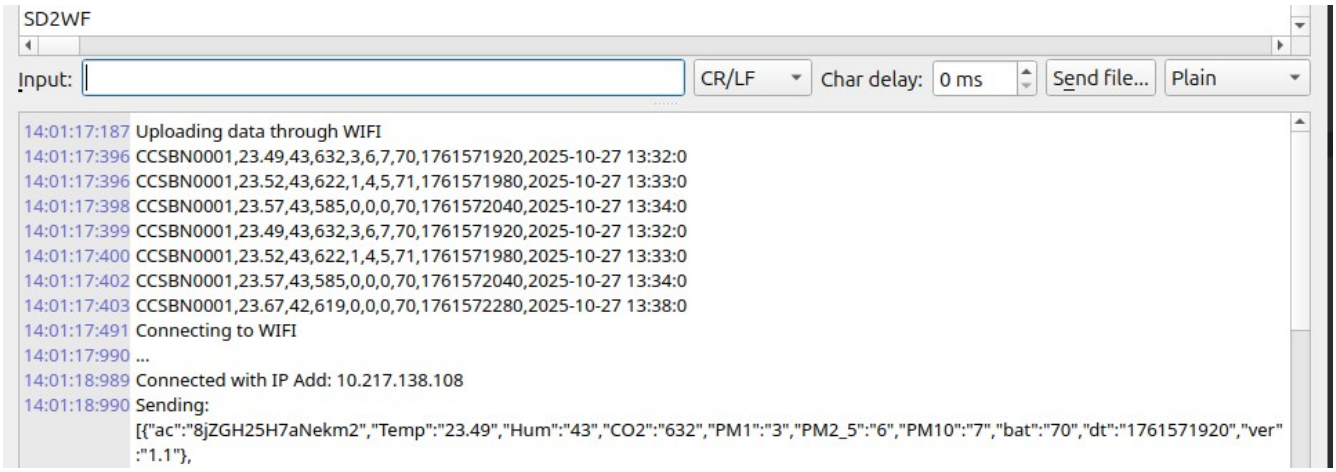
Command: “DATA_ALL”



25. Manually upload data to a server through WIFI

Only samples that have not previously been uploaded are uploaded.

Command: “SD2WF”



26. Check device operation logs

To see historical user operations on the device:

Command: “READLOG”