



Bonolo V5 A.Q.S. user training

Monitoring:

- (1) Particulate Matter (PM1, PM2.5 & PM10)
- (2) Temperature and Humidity
- (3) CO2 optional
- (4) etc

The Bonolo V5 unit

Power:

- (1) Rechargeable Battery
- (2) 12V DC Charger
- (3) 12V Solar

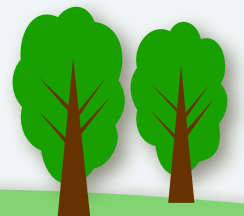


Communication:

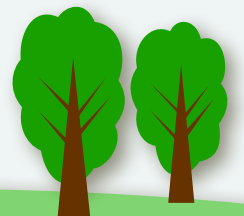
- (1) USB/UART
- (2) Wifi
- (3) LTE

Memory:

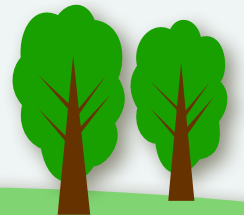
- (1) 16GB SD memory



Installation Example



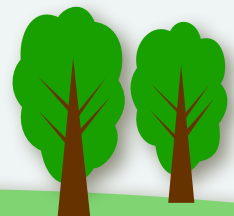
Installation Example



Charging – 12V DC Power Supply



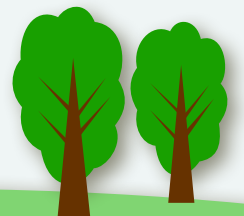
Up to 15 hrs
charging time



Software requirements

A USB driver for the CH340N chip.
Any UART terminal app

Windows, MacOS, Linux and Android



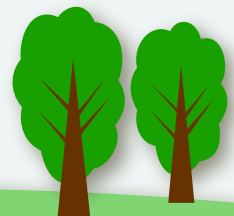
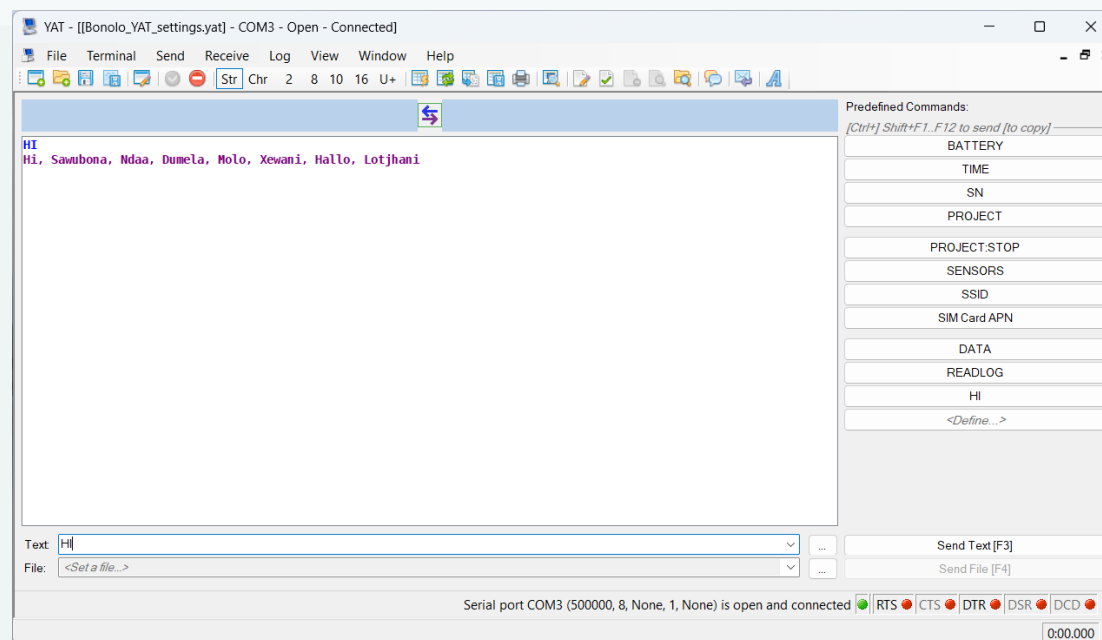
Software - Windows

A USB driver for the CH340N chip.

- <https://sparks.gogo.co.nz/ch340.html>

Any UART terminal app. e.g. “YAT”

- <https://sourceforge.net/projects/y-a-terminal/>

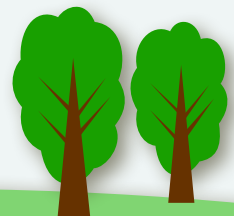
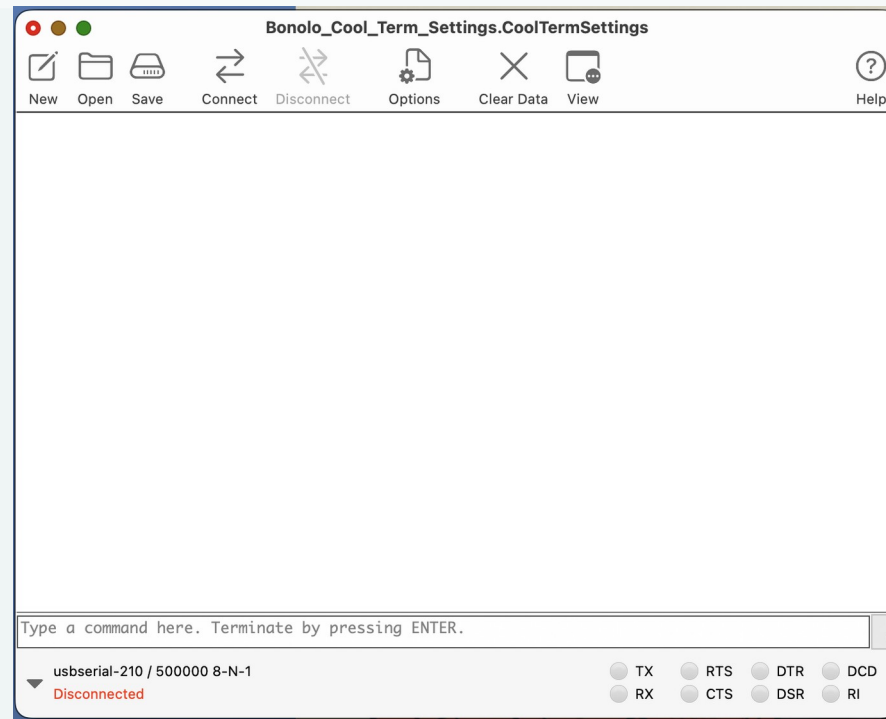


Software – Mac OS

A USB driver is installed already.

Any UART terminal app. e.g. “CoolTerm”

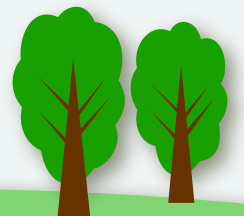
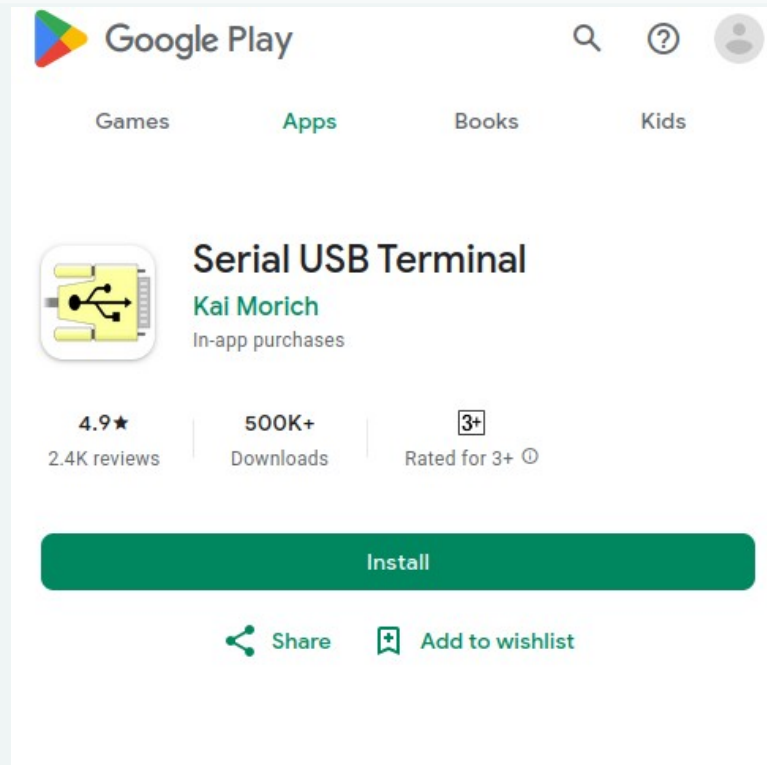
- <https://freeware.the-meiers.org/>



Software - Android

A USB driver is already installed

A terminal app. e.g. “Serial USB Terminal”



Communication check. "Hi"

The screenshot shows a YAT terminal window titled "YAT - [[Bonolo_YAT_settings.yat] - COM3 - Open - Connected]". The window has a menu bar with "File", "Terminal", "Send", "Receive", "Log", "View", "Window", and "Help". Below the menu bar is a toolbar with various icons. The main terminal area displays the text "HI" in blue, followed by "Hi, Sawubona, Ndaa, Dumela, Molo, Xewani, Hallo, Lotjhani" in purple. At the bottom of the terminal area, there is a "Text" field containing "Hi" and a "File" field with the placeholder "<Set a file...>". To the right of the terminal area is a "Predefined Commands" panel with a list of buttons: "BATTERY", "TIME", "SN", "PROJECT", "PROJECT:STOP", "SENSORS", "SSID", "SIM Card APN", "DATA", "READLOG", "HI", and "<Define...>". Below the "HI" button is a "Send Text [F3]" button and a "Send File [F4]" button. At the bottom of the window, a status bar indicates "Serial port COM3 (500000, 8, None, 1, None) is open and connected" with several status indicators (RTS, CTS, DTR, DSR, DCD) and a timer showing "0:00.000".

Battery Level

The screenshot shows a YAT terminal window titled "YAT - [[Bonolo_YAT_settings.yat] - COM7 - Open - Connected]". The window has a menu bar with "File", "Terminal", "Send", "Receive", "Log", "View", "Window", and "Help". Below the menu bar is a toolbar with various icons. The main terminal area displays the following text:

```
BATTERY  
----Battery Voltage: 3.96 V  
----Battery Percentage: 80 %
```

At the bottom of the terminal area, there are input fields for "Text" (containing "BATTERY") and "File" (containing "<Set a file...>"). To the right of the terminal area is a "Predefined Commands" panel with a list of buttons: "BATTERY", "TIME", "SN", "PROJECT", "PROJECT:STOP", "SENSORS", "SSID", "SIM Card APN", "DATA", "READLOG", "HI", and "<Define...>". Below these buttons are "Send Text [F3]" and "Send File [F4]" buttons. At the bottom of the window, a status bar indicates "Serial port COM7 (500000, 8, None, 1, None) is open and connected" with several indicator lights (RTS, CTS, DTR, DSR, DCD) and a timer showing "0:00.000".

Check the time

The screenshot shows a YAT terminal window titled "YAT - [[Bonolo_YAT_settings.yat] - COM3 - Open - Connected]". The window has a menu bar with "File", "Terminal", "Send", "Receive", "Log", "View", "Window", and "Help". Below the menu bar is a toolbar with various icons. The main terminal area displays the command "TIME" and its output: "----Current time: Time: 2025/9/22 (Monday) 13:37:31". To the right of the terminal is a "Predefined Commands:" panel with a list of commands: BATTERY, TIME, SN, PROJECT, PROJECT:STOP, SENSORS, SSID, SIM Card APN, DATA, READLOG, HI, and <Define...>. At the bottom of the terminal, there are input fields for "Text" (containing "TIME") and "File" (containing "<Set a file...>"). Below these fields are buttons for "Send Text [F3]" and "Send File [F4]". At the very bottom of the window, a status bar indicates "Serial port COM3 (500000, 8, None, 1, None) is open and connected" with several status indicators (RTS, CTS, DTR, DSR, DCD) and a timer showing "0:00.000".

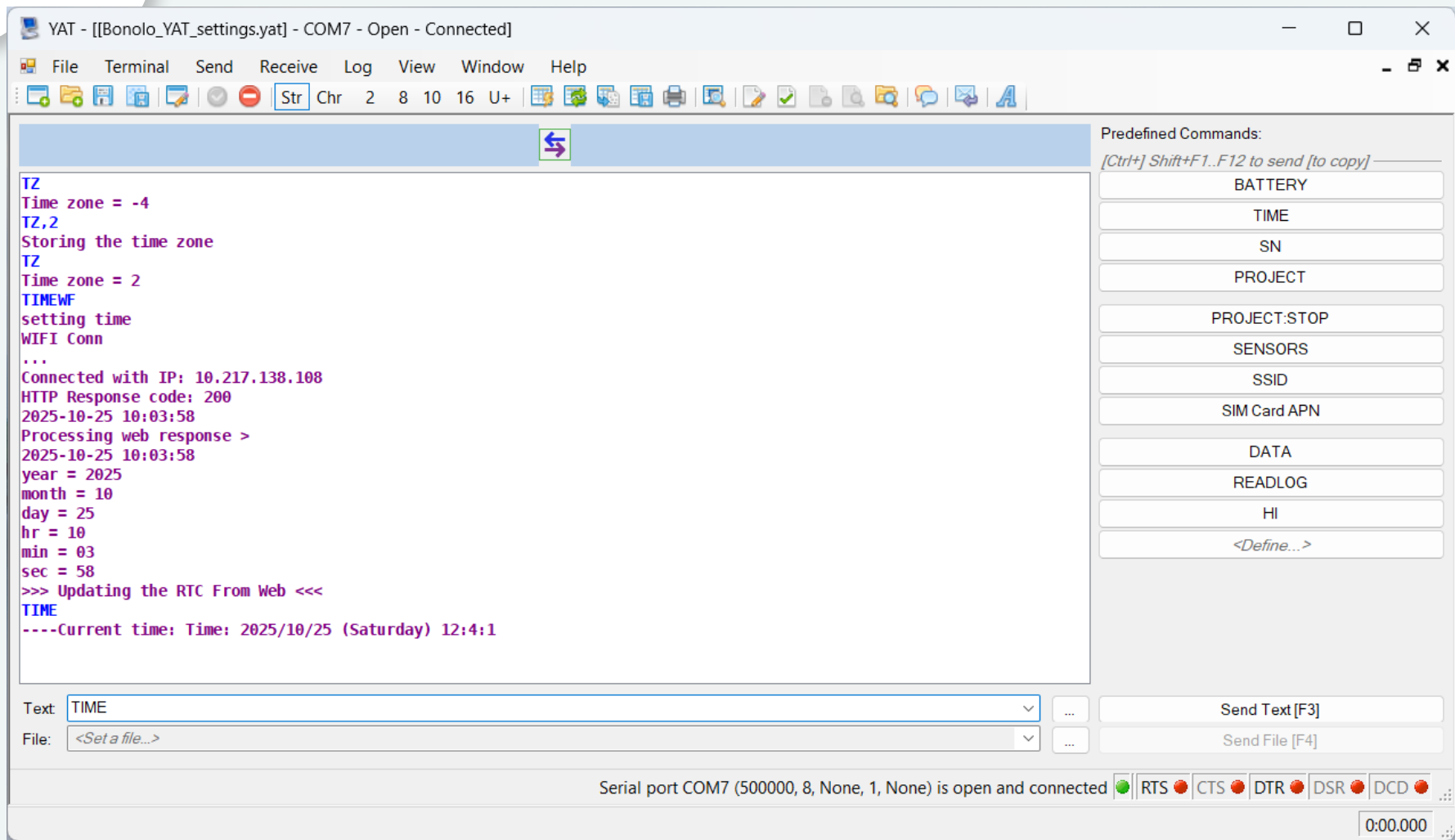
Set the time manually

The screenshot shows a YAT terminal window titled "YAT - [[Bonolo_YAT_settings.yat] - COM7 - Open - Connected]". The window has a menu bar (File, Terminal, Send, Receive, Log, View, Window, Help) and a toolbar with various icons. The main terminal area displays the following text:

```
TIME,2025-10-25 10:00:00
Setting the clock
Input>: 2025-10-25_10:00:00
Year>: 2025
Month>: 10
Day>: 25
Hour>: 10
Minute>: 00
Second>: 00
```

Below the terminal area, there are fields for "Text" (containing "TIME,2025-10-25 10:00:00") and "File" (containing "<Set a file...>"). To the right of the terminal is a "Predefined Commands" panel with buttons for BATTERY, TIME, SN, PROJECT, PROJECT:STOP, SENSORS, SSID, SIM Card APN, DATA, READLOG, HI, and <Define...>. Below this panel are buttons for "Send Text [F3]" and "Send File [F4]". At the bottom of the window, a status bar indicates "Serial port COM7 (500000, 8, None, 1, None) is open and connected" with status indicators for RTS, CTS, DTR, DSR, and DCD. A timer in the bottom right corner shows "0:00.000".

Time zone and set to internet time



The screenshot shows a terminal window titled "YAT - [[Bonolo_YAT_settings.yat] - COM7 - Open - Connected]". The window contains the following text:

```
TZ
Time zone = -4
TZ,2
Storing the time zone
TZ
Time zone = 2
TIMEWF
setting time
WIFI Conn
...
Connected with IP: 10.217.138.108
HTTP Response code: 200
2025-10-25 10:03:58
Processing web response >
2025-10-25 10:03:58
year = 2025
month = 10
day = 25
hr = 10
min = 03
sec = 58
>>> Updating the RTC From Web <<<
TIME
----Current time: Time: 2025/10/25 (Saturday) 12:4:1
```

Below the terminal output, there are fields for "Text" (set to "TIME") and "File" (set to "<Set a file...>"). To the right, a "Predefined Commands:" list includes: BATTERY, TIME, SN, PROJECT, PROJECT:STOP, SENSORS, SSID, SIM Card APN, DATA, READLOG, HI, and <Define...>. At the bottom, a status bar indicates "Serial port COM7 (500000, 8, None, 1, None) is open and connected" with status icons for RTS, CTS, DTR, DSR, and DCD. A timer in the bottom right corner shows "0:00.000".

Test Sensors

The screenshot shows a terminal window titled "YAT - [[Bonolo_YAT_settings.yat] - COM3 - Open - Connected]". The window has a menu bar with "File", "Terminal", "Send", "Receive", "Log", "View", "Window", and "Help". Below the menu bar is a toolbar with various icons. The main terminal area displays the following text:

```
SENSORS
----Reading Sensors. Takes 30 secondsNo data.
No data.
No data.
No data.
PMS Read time out.
<LF>Sensor Values:
Temperature:  22.9 *C
Relative Humidity:  54 %
CO2:  445 PPM
PM1:  0 ug/m3
PM2.5:  0 ug/m3
PM10:  0 ug/m3
Battery: 75 %
Time: Time: 2025/9/22 (Monday) 13:40:21
```

On the right side of the terminal window, there is a "Predefined Commands:" section with a list of buttons:

- [Ctrl+] Shift+F1..F12 to send [to copy]
- BATTERY
- TIME
- SN
- PROJECT
- PROJECT:STOP
- SENSORS
- SSID
- SIM Card APN
- DATA
- READLOG
- HI
- <Define...>

At the bottom of the terminal window, there are input fields for "Text" (containing "SENSORS") and "File" (containing "<Set a file...>"). A tooltip is visible over the "Text" field, stating: "Fill-in single-line text or [...] to enter multi-line text, drop down for recent text, [Enter] or [F3] to send [Text]".

At the bottom right of the terminal window, there is a status bar that reads: "Serial port COM3 (500000, 8, None, 1, None) is open and connected". To the right of this text are several status indicators: a green light, and red lights for "RTS", "CTS", "DTR", "DSR", and "DCD". A timer at the bottom right shows "0:00.000".

Serial Number

The screenshot shows a terminal window titled "YAT - [[Bonolo_YAT_settings.yat] - COM3 - Open - Connected]". The window has a menu bar with "File", "Terminal", "Send", "Receive", "Log", "View", "Window", and "Help". Below the menu bar is a toolbar with various icons. The main terminal area displays the command "SN" in blue and the output "SN = CCSBN0009" in purple. To the right of the terminal is a "Predefined Commands:" panel with a list of buttons: "BATTERY", "TIME", "SN", "PROJECT", "PROJECT:STOP", "SENSORS", "SSID", "SIM Card APN", "DATA", "READLOG", "HI", and "<Define...>". Below the terminal area are input fields for "Text" (containing "SN") and "File" (containing "<Set a file...>"). At the bottom of the window, a status bar indicates "Serial port COM3 (500000, 8, None, 1, None) is open and connected" with several status icons (RTS, CTS, DTR, DSR, DCD) and a timer showing "0:00.000".

PROJECT - Check

YAT - [[Bonolo_YAT_settings.yat] - COM3 - Open - Connected]

File Terminal Send Receive Log View Window Help

Str Chr 2 8 10 16 U+

PROJECT

```
----Current time: Time: 2025/9/22 (Monday) 13:39:7
----Project Start: Time: 2025/9/24 (Wednesday) 21:11:19
----End: Time: 2025/9/24 (Wednesday) 21:11:19
----Sampling Period: 300 seconds
----Project ongoing
----LTE ON
----WIFI ON
----
```

Predefined Commands:

[Ctrl+] Shift+F1..F12 to send [to copy]

- BATTERY
- TIME
- SN
- PROJECT
- PROJECT:STOP
- SENSORS
- SSID
- SIM Card APN
- DATA
- READLOG
- HI
- <Define...>

Text: PROJECT

File: <Set a file...>

Serial port COM3 (500000, 8, None, 1, None) is open and connected

RTS CTS DTR DSR DCD

0:00.000

PROJECT - START

The screenshot shows the YAT terminal software interface. The title bar reads "YAT - [[Bonolo_YAT_settings.yat] - COM7 - Open - Connected]". The menu bar includes "File", "Terminal", "Send", "Receive", "Log", "View", "Window", and "Help". The toolbar contains various icons for file operations and terminal control. The main terminal window displays the following text:

```
PROJECT:DAY
----New 1 day project
----Current time: Time: 2025/10/25 (Saturday) 12:21:21
----Project Start: Time: 2025/10/25 (Saturday) 12:21:21
----End: Time: 2025/10/26 (Sunday) 12:21:21
----Sampling Period: 60 seconds
----Project ongoing
----LTE OFF
----WIFI OFF
----
Time: 2025/10/25 (Saturday) 12:22:0
<LF>Sensor Values:
Temperature: 22.8 *C
Relative Humidity: 43 %
CO2: 496 PPM
PM1: 0 ug/m3
PM2.5: 0 ug/m3
PM10: 0 ug/m3
Battery: 79 %
Time: 2025/10/25 (Saturday) 12:22:0
0
Time: 2025/10/25 (Saturday) 12:23:1
<LF>Sensor Values:
Temperature: 23.1 *C
Relative Humidity: 43 %
CO2: 505 PPM
```

Below the terminal window, there are fields for "Text" (containing "PROJECT:DAY") and "File" (containing "<Set a file...>"). To the right, a "Predefined Commands" panel lists several commands: BATTERY, TIME, SN, PROJECT, PROJECT:STOP, SENSORS, SSID, SIM Card APN, DATA, READLOG, HI, and <Define...>. At the bottom, a status bar indicates "Serial port COM7 (500000, 8, None, 1, None) is open and connected" with status icons for RTS, CTS, DTR, DSR, and DCD. A timer in the bottom right corner shows "0:00.000".

PROJECT - STOP

YAT - [[Bonolo_YAT_settings.yat] - COM7 - Open - Connected]

File Terminal Send Receive Log View Window Help

Str Chr 2 8 10 16 U+

PROJECT:STOP
----Stopping the project
CCSBN0001,22.81,43,496,0,0,0,79,1761394920,2025-10-25 12:22:0
CCSBN0001,23.06,43,505,0,0,0,79,1761394980,2025-10-25 12:23:0
CCSBN0001,23.70,42,557,0,0,0,79,1761395040,2025-10-25 12:24:0
CCSBN0001,24.29,41,469,0,0,0,80,1761395100,2025-10-25 12:25:0
CCSBN0001,24.72,40,525,0,0,0,79,1761395160,2025-10-25 12:26:0
CCSBN0001,25.13,39,431,0,0,0,79,1761395220,2025-10-25 12:27:0
CCSBN0001,25.58,37,493,0,0,0,79,1761395280,2025-10-25 12:28:0
CCSBN0001,26.00,37,445,0,0,0,79,1761395340,2025-10-25 12:29:0
----Current time: Time: 2025/10/25 (Saturday) 12:29:48
----Project Start: Time: 2025/10/25 (Saturday) 12:21:21
----End: Time: 2025/10/25 (Saturday) 12:29:48
----Sampling Period: 60 seconds
----Project OFF
----LTE OFF
----WIFI OFF

Predefined Commands:
[Ctrl+] Shift+F1..F12 to send [to copy] _____

- BATTERY
- TIME
- SN
- PROJECT
- PROJECT:STOP
- SENSORS
- SSID
- SIM Card APN
- DATA
- READLOG
- HI
- <Define...>

Text: PROJECT:STOP

File: <Set a file...>

Serial port COM7 (500000, 8, None, 1, None) is open and connected

RTS CTS DTR DSR DCD

0:00.000

Project – Sampling Period

The screenshot shows a terminal window titled "YAT - [[Bonolo_YAT_settings.yat] - COM7 - Open - Connected]". The window has a menu bar with "File", "Terminal", "Send", "Receive", "Log", "View", "Window", and "Help". Below the menu bar is a toolbar with various icons. The main terminal area displays the following text:

```
PROJECT,SP,5
----Changing the sampling
----Current time: Time: 2025/10/25 (Saturday) 12:10:9
----Project Start: Time: 2025/10/24 (Friday) 13:39:29
----End: Time: 2025/10/25 (Saturday) 12:0:59
----Sampling Period: 300 seconds
----Project OFF
----LTE OFF
----WIFI OFF
----
PROJECT,SP,1
----Changing the sampling
----Current time: Time: 2025/10/25 (Saturday) 12:10:18
----Project Start: Time: 2025/10/24 (Friday) 13:39:29
----End: Time: 2025/10/25 (Saturday) 12:0:59
----Sampling Period: 60 seconds
----Project OFF
----LTE OFF
----WIFI OFF
----
```

At the bottom of the terminal area, there are input fields for "Text" (containing "PROJECT.SP,1") and "File" (containing "<Set a file...>").

On the right side of the window, there is a "Predefined Commands:" panel. It contains a list of commands in a scrollable list:

- [Ctrl+] Shift+F1..F12 to send [to copy]
- BATTERY
- TIME
- SN
- PROJECT
- PROJECT:STOP
- SENSORS
- SSID
- SIM Card APN
- DATA
- READLOG
- HI
- <Define...>

At the bottom of the window, there is a status bar that reads: "Serial port COM7 (500000, 8, None, 1, None) is open and connected". To the right of this text are several status indicators: a green light, and buttons for "RTS", "CTS", "DTR", "DSR", and "DCD". A timer in the bottom right corner shows "0:00.000".

Project WIFI Enable

YAT - [[Bonolo_YAT_settings.yat] - COM7 - Open - Connected]

File Terminal Send Receive Log View Window Help

Str Chr 2 8 10 16 U+

```
WIFIEN,1
WIFI ON
WIFIEN,0
WIFI OFF
```

Predefined Commands:

[Ctrl+] Shift+F1..F12 to send [to copy]

- BATTERY
- TIME
- SN
- PROJECT
- PROJECT:STOP
- SENSORS
- SSID
- SIM Card APN
- DATA
- READLOG
- Send "READLOG"
- <Define...>
- Send Text [F3]
- Send File [F4]

Text: WIFIEN,1

File: <Set a file...>

Serial port COM7 (500000, 8, None, 1, None) is open and connected

RTS CTS DTR DSR DCD

0:00.000

WIFI SSID check and set

The screenshot shows a YAT terminal window titled "YAT - [[Bonolo_YAT_settings.yat] - COM7 - Open - Connected]". The window has a menu bar with "File", "Terminal", "Send", "Receive", "Log", "View", "Window", and "Help". Below the menu bar is a toolbar with various icons. The main terminal area displays the following text:

```
SSID
SSID = UCT01
SSID:CIRCOR
Storing the SSID
SSID
SSID = CIRCOR
WFPASS:CIRCOR2005
Storing the password
```

At the bottom of the terminal area, there are input fields for "Text" (containing "WFPASS:CIRCOR2005") and "File" (containing "<Set a file...>").

On the right side of the window, there is a "Predefined Commands:" panel. It lists several commands in a scrollable list:

- BATTERY
- TIME
- SN
- PROJECT
- PROJECT:STOP
- SENSORS
- SSID
- SIM Card APN
- DATA
- READLOG
- HI
- <Define...>

Below the predefined commands list, there are buttons for "Send Text [F3]" and "Send File [F4]".

At the bottom of the window, there is a status bar showing "Serial port COM7 (500000, 8, None, 1, 1)" and a tooltip that reads: "[...] to browse for a file, drop down for recent files, [Enter] to send [File]". To the right of the status bar, there are several status indicators: a green light for "RTS", a red light for "CTS", a red light for "DTR", a red light for "DSR", and a red light for "DCD". A timer shows "0:00.000".

PROJECT – LTE Enable

The screenshot displays the YAT terminal application window. The title bar reads "YAT - [[Bonolo_YAT_settings.yat] - COM7 - Open - Connected]". The menu bar includes "File", "Terminal", "Send", "Receive", "Log", "View", "Window", and "Help". The toolbar contains various icons for file operations and terminal control. The main terminal area shows the following text:

```
LTEEN,1
LTE ON
LTEEN,0
LTE OFF
```

Below the terminal area, there are input fields for "Text" (containing "LTEEN,1") and "File" (containing "<Set a file...>"). To the right, a "Predefined Commands:" panel lists several commands in a scrollable list:

- BATTERY
- TIME
- SN
- PROJECT
- PROJECT:STOP
- SENSORS
- SSID
- SIM Card APN
- DATA
- READLOG
- HI
- <Define...>

At the bottom of the window, a status bar indicates "Serial port COM7 (500000, 8, None, 1, None) is open and connected" with status icons for RTS, CTS, DTR, DSR, and DCD. A timer in the bottom right corner shows "0:00.000".

LTE – Access Point Name

The screenshot shows the YAT terminal window titled "YAT - [[Bonolo_YAT_settings.yat] - COM7 - Open - Connected]". The interface includes a menu bar (File, Terminal, Send, Receive, Log, View, Window, Help) and a toolbar with various icons. The main terminal area displays the following text:

```
APN
APN = internet
APN,MTN
Storing the APN
APN,internet
Storing the APN
APN
APN = internet
```

Below the terminal area, there are input fields for "Text" (containing "APN") and "File" (containing "<Set a file...>"). To the right, a "Predefined Commands" panel lists several options: BATTERY, TIME, SN, PROJECT, PROJECT:STOP, SENSORS, SSID, SIM Card APN, DATA, READLOG, HI, and <Define...>. At the bottom, there are buttons for "Send Text [F3]" and "Send File [F4]". The status bar at the bottom indicates "Serial port COM7 (500000, 8, None, 1, None) is open and connected" with status indicators for RTS, CTS, DTR, DSR, and DCD. A timer in the bottom right corner shows "0:00.000".

PROJECT – Local Data

The screenshot shows a terminal window titled "YAT - [[Bonolo_YAT_settings.yat] - COM7 - Open - Connected]". The window has a menu bar with "File", "Terminal", "Send", "Receive", "Log", "View", "Window", and "Help". Below the menu bar is a toolbar with various icons. The main area of the terminal displays a list of sensor data under the heading "DATA". The data is formatted as follows:

```
DATA
SN, Temperature (*C), Hum (%), CO2 (PPM), PM1 (ug/m^3), PM2.5 (ug/m^3), PM10 (ug/m^3), BATTERY (%), UnixTime, DateTime
CCSBN0001, 26.17, 45, 546, 1, 1, 1, 89, 1761230400, 2025-10-23 14:40:0
CCSBN0001, 24.36, 49, 591, 4, 6, 6, 82, 1761312600, 2025-10-24 13:30:0
CCSBN0001, 24.65, 49, 566, 4, 6, 7, 82, 1761312900, 2025-10-24 13:35:0
CCSBN0001, 22.81, 43, 496, 0, 0, 0, 79, 1761394920, 2025-10-25 12:22:0
CCSBN0001, 23.06, 43, 505, 0, 0, 0, 79, 1761394980, 2025-10-25 12:23:0
CCSBN0001, 23.70, 42, 557, 0, 0, 0, 79, 1761395040, 2025-10-25 12:24:0
CCSBN0001, 24.29, 41, 469, 0, 0, 0, 80, 1761395100, 2025-10-25 12:25:0
CCSBN0001, 24.72, 40, 525, 0, 0, 0, 79, 1761395160, 2025-10-25 12:26:0
CCSBN0001, 25.13, 39, 431, 0, 0, 0, 79, 1761395220, 2025-10-25 12:27:0
CCSBN0001, 25.58, 37, 493, 0, 0, 0, 79, 1761395280, 2025-10-25 12:28:0
CCSBN0001, 26.00, 37, 445, 0, 0, 0, 79, 1761395340, 2025-10-25 12:29:0
```

Below the data, there is a "Text" field containing "DATA" and a "File" field containing "<Set a file...>". To the right of the terminal is a "Predefined Commands" panel with a list of buttons: BATTERY, TIME, SN, PROJECT, PROJECT:STOP, SENSORS, SSID, SIM Card APN, DATA, READLOG, HI, and <Define...>. Below the list are buttons for "Send Text [F3]" and "Send File [F4]". At the bottom of the window, a status bar indicates "Serial port COM7 (500000, 8, None, 1, None) is open and connected" with several status icons (RTS, CTS, DTR, DSR, DCD) and a timer showing "0:00.000".

PROJECT – Local to Server

The screenshot shows the YAT (YAT - [[Bonolo_YAT_settings.yat] - COM7 - Open - Connected] window. The interface includes a menu bar (File, Terminal, Send, Receive, Log, View, Window, Help), a toolbar, and a main terminal area. The terminal displays the following text:

```
SD2WF
Uploading data through WIFI
CCSBN0001,26.17,45,546,1,1,1,89,1761230400,2025-10-23 14:40:0
CCSBN0001,24.36,49,591,4,6,6,82,1761312600,2025-10-24 13:30:0
CCSBN0001,24.65,49,566,4,6,7,82,1761312900,2025-10-24 13:35:0
CCSBN0001,22.81,43,496,0,0,0,79,1761394920,2025-10-25 12:22:0
CCSBN0001,23.06,43,505,0,0,0,79,1761394980,2025-10-25 12:23:0
CCSBN0001,23.70,42,557,0,0,0,79,1761395040,2025-10-25 12:24:0
CCSBN0001,24.29,41,469,0,0,0,80,1761395100,2025-10-25 12:25:0
CCSBN0001,24.72,40,525,0,0,0,79,1761395160,2025-10-25 12:26:0
CCSBN0001,25.13,39,431,0,0,0,79,1761395220,2025-10-25 12:27:0
CCSBN0001,25.58,37,493,0,0,0,79,1761395280,2025-10-25 12:28:0
CCSBN0001,26.00,37,445,0,0,0,79,1761395340,2025-10-25 12:29:0
Connecting to WIFI
...
Connected with IP Add: 10.217.138.108
Sending: [{"ac": "8jZGH25H7aNekm2", "Temp": "26.17", "Hum": "45", "CO2": "546", "PM1": "1", "PM2_5": "1", "PM10": "1", "bat": "89", "
HTTP Response code: 200

Done
```

Below the terminal, there are input fields for 'Text' (containing 'SD2WF') and 'File' (containing '<Set a file...>'). To the right, a 'Predefined Commands' panel lists various commands: BATTERY, TIME, SN, PROJECT, PROJECT:STOP, SENSORS, SSID, SIM Card APN, DATA, READLOG, HI, and <Define...>. At the bottom, a status bar indicates 'Serial port COM7 (500000, 8, None, 1, None) is open and connected' with status icons for RTS, CTS, DTR, DSR, and DCD. A timer shows '0:00.000'.

Operation Log

The screenshot shows a terminal window titled "YAT - [[Bonolo_YAT_settings.yat] - COM7 - Open - Connected]". The window has a menu bar with "File", "Terminal", "Send", "Receive", "Log", "View", "Window", and "Help". Below the menu bar is a toolbar with various icons. The main area of the terminal displays a log of operations, including time changes, project changes, and wifi/apn changes. On the right side, there is a "Predefined Commands:" section with a list of buttons: BATTERY, TIME, SN, PROJECT, PROJECT:STOP, SENSORS, SSID, SIM Card APN, DATA, READLOG, HI, and a "<Define...>" button. At the bottom of the terminal, there is a status bar showing "Serial port COM7 (500000, 8, None, 1, None) is open and connected" and a timer showing "0:00.000".

```
Time change - 2023/11/31 (Friday) 16:0:55<LF>Old time: 2023/11/31 (Friday) 16:0:55 > New time: 2023:11:30_16:00<LF>
Time change - 2023/11/31 (Friday) 16:0:5<LF>Old time: 2023/11/31 (Friday) 16:0:5 > New time: TIMEWF<LF>
Project change2025/10/23 (Thursday) 16:0:34<LF>PS: 2025/10/23 (Thursday) 16:0:34<LF>PE: 2025/10/23 (Thursday) 17:0
Project change2025/10/23 (Thursday) 16:0:45<LF>PS: 2025/10/23 (Thursday) 16:0:34<LF>PE: 2025/10/23 (Thursday) 16:0
Project change2025/10/23 (Thursday) 16:8:20<LF>PS: 2025/10/23 (Thursday) 16:8:20<LF>PE: 2025/10/23 (Thursday) 17:8
Project change2025/10/23 (Thursday) 16:9:29<LF>PS: 2025/10/23 (Thursday) 16:8:20<LF>PE: 2025/10/23 (Thursday) 16:9
Project change2025/10/24 (Friday) 8:42:12<LF>PS: 2025/10/23 (Thursday) 16:8:20<LF>PE: 2025/10/23 (Thursday) 16:9:2
Project change2025/10/24 (Friday) 8:42:27<LF>PS: 2025/10/24 (Friday) 8:42:27<LF>PE: 2025/10/24 (Friday) 9:42:27<LF>
Project change2025/10/24 (Friday) 13:25:44<LF>PS: 2025/10/24 (Friday) 8:42:27<LF>PE: 2025/10/24 (Friday) 13:25:44<
Project change2025/10/24 (Friday) 13:28:48<LF>PS: 2025/10/24 (Friday) 13:28:48<LF>PE: 2025/10/24 (Friday) 14:28:48<
Project change2025/10/24 (Friday) 13:38:50<LF>PS: 2025/10/24 (Friday) 13:28:48<LF>PE: 2025/10/24 (Friday) 13:38:49<
Project change2025/10/24 (Friday) 13:39:29<LF>PS: 2025/10/24 (Friday) 13:39:29<LF>PE: 2025/10/24 (Friday) 14:39:29<
Project change2025/10/25 (Saturday) 12:0:59<LF>PS: 2025/10/24 (Friday) 13:39:29<LF>PE: 2025/10/25 (Saturday) 12:0:
Time change - 2025/10/25 (Saturday) 12:1:12<LF>Old time: 2025/10/25 (Saturday) 12:1:12 > New time: 2025-10-25_10:0
Time change - 2025/10/25 (Saturday) 10:2:42<LF>Old time: 2025/10/25 (Saturday) 10:2:42 > New time: TIMEWF<LF>
Project change2025/10/25 (Saturday) 12:10:9<LF>PS: 2025/10/24 (Friday) 13:39:29<LF>PE: 2025/10/25 (Saturday) 12:0:
Project change2025/10/25 (Saturday) 12:10:18<LF>PS: 2025/10/24 (Friday) 13:39:29<LF>PE: 2025/10/25 (Saturday) 12:0
Wifi change - 2025/10/25 (Saturday) 12:15:10<LF>New SSID: UCT01<LF>
Wifi change - 2025/10/25 (Saturday) 12:15:28<LF>New SSID: CIRCOR<LF>
APN change - 2025/10/25 (Saturday) 12:19:26<LF>New APN: MTN<LF>
APN change - 2025/10/25 (Saturday) 12:19:34<LF>New APN: internet<LF>
Project change2025/10/25 (Saturday) 12:21:21<LF>PS: 2025/10/25 (Saturday) 12:21:21<LF>PE: 2025/10/26 (Sunday) 12:2
Project change2025/10/25 (Saturday) 12:29:48<LF>PS: 2025/10/25 (Saturday) 12:21:21<LF>PE: 2025/10/25 (Saturday) 12
Project change2025/10/25 (Saturday) 12:30:48<LF>PS: 2025/10/25 (Saturday) 12:21:21<LF>PE: 2025/10/25 (Saturday) 12
```

Text: READLOG
File: <Set a file...>

Serial port COM7 (500000, 8, None, 1, None) is open and connected

0:00.000

YAT Settings file

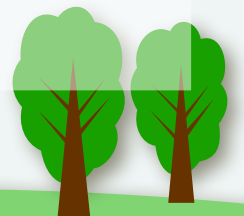
The screenshot displays the YAT terminal application window titled "YAT - [[Bonolo_YAT_settings.yat] - COM3 - Open - Connected]". The interface includes a menu bar (File, Terminal, Send, Receive, Log, View, Window, Help) and a toolbar with various icons. The main terminal area shows the text "HI" in blue and "Hi, Sawubona, Ndaa, Dumela, Molo, Xewani, Hallo, Lotjhani" in purple. Below the terminal area are input fields for "Text" (containing "Hi") and "File" (containing "<Set a file...>"). On the right side, there is a "Predefined Commands:" panel with a list of buttons: BATTERY, TIME, SN, PROJECT, PROJECT:STOP, SENSORS, SSID, SIM Card APN, DATA, READLOG, HI, and <Define...>. At the bottom of the window, a status bar indicates "Serial port COM3 (500000, 8, None, 1, None) is open and connected" with status indicators for RTS, CTS, DTR, DSR, and DCD. A timer in the bottom right corner shows "0:00.000".

Questions ?

Contact us:

021 762 1171

info@circor.co.za



Data logging, example

Project details

- (1) Project length: one month
- (2) Sampling period: 15
- (3) WIFI: OFF
- (4) LTE: OFF

