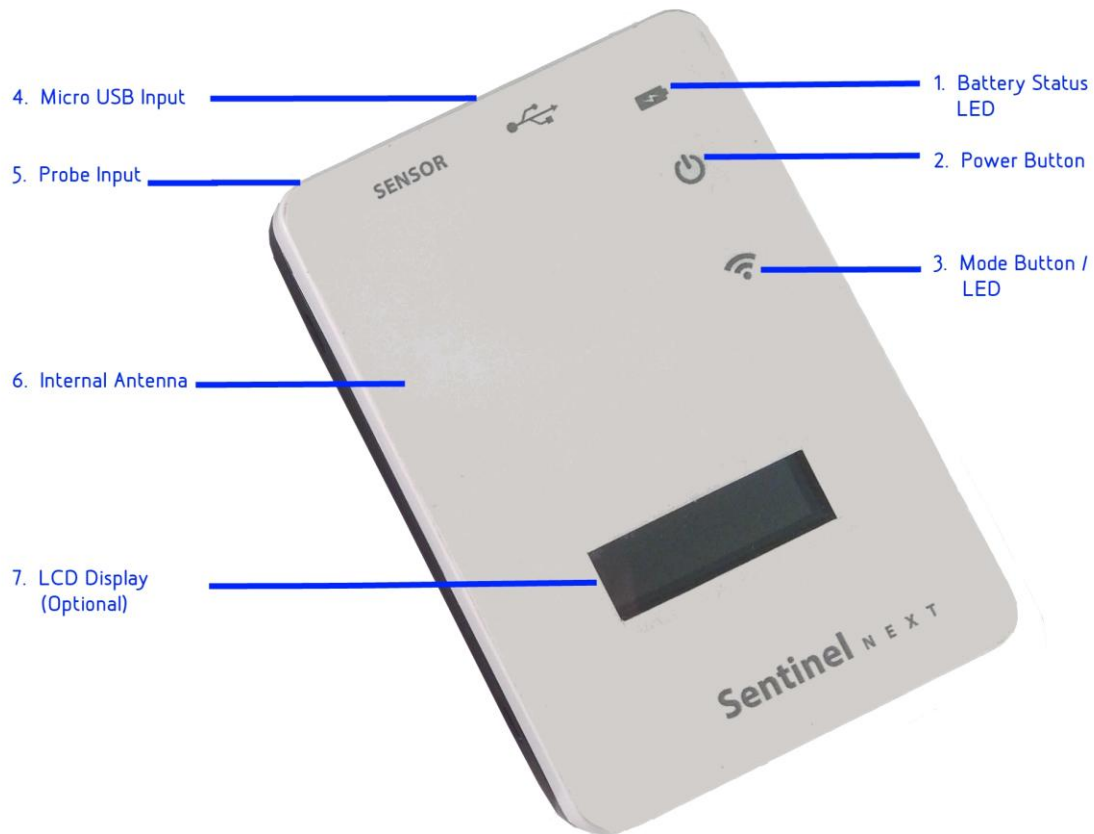


Sentinel Next Reference Guide

This guide describes the physical and functional attributes of the Sentinel Next line of sensors.



1. Battery Status LED

When a Micro USB cable is plugged in to the Micro USB input (4) and connected to a charger the Battery Status LED will have the following behavior.

- Solid Green: Battery is fully charged.
- Solid Red: Battery is charging.

If both Mode (3) and Battery LED are blinking red:

Battery is almost 100% depleted. Sensor cannot function until battery is recharged (rechargeable version) or replaced (battery only version).

2. Power Button

This is just a momentary push that functions as an On/Off button.

To power the unit on – briefly press and release the power button. The Mode LED (3) will blink green 5 times very quickly indicating the unit is turning on.

To power the unit off- press and hold the power button for 5 seconds. When you release the power button the Mode LED (3) will blink red 5 times very quickly indicating the unit is turning off.

3. Mode Button / LED

The Mode Button / LED has several functions.

LED indicator:

- Green (solid): Sensor is in factory default Direct Mode
- Blue (periodic blink): Sensor is configured to post data to a server.
- Blue (solid): Sensor is configured to post data to a server and is plugged into a power source.
- 5 quick green blinks: Sensor is powering on.
- 5 quick red blinks: Sensor is powering off.
- Blinking red at same time as Battery Status LED (1): Battery is almost 100% depleted. Sensor cannot function until battery is recharged (rechargeable version) or replaced (battery only version).
- Red blinks per dbg table included discussed in Troubleshooting.

Switching Modes:

To return sensor to factory default Direct Mode, press and hold the Mode Button for ~5s. Upon release the Mode Button LED will flash green a few times and stay solid Green.

To return sensor from Direct Mode to post to last configured data server, briefly press the Mode Button. The Mode Button LED will flash blue a few times indicating it has been set to report to last configured data server.

Control LCD Display (7) functions on units with display.

This function is covered in detail in section 7. LCD Display Function.

Control debug function.

Covered in section 8. Troubleshooting.

4. Micro USB Input

The Micro USB input is used solely for charging the built in rechargeable battery. To charge, plug the Micro USB connector into the Micro USB Input. Plug the other end of the micro USB cable into a USB charging brick with rated output of 5Vdc and minimum 150mA.

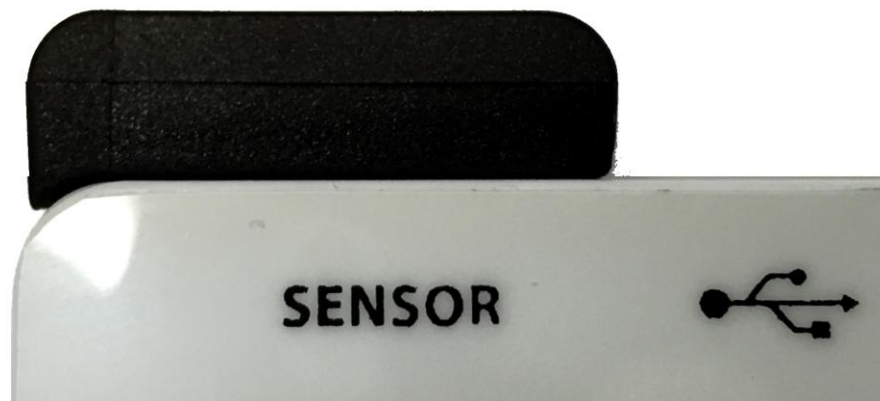


The Sentinel Next comes with a pre-installed with a 3.6V rechargeable lithium battery.



5. Probe Input

The probe input is keyed so it is only possible to connect the probe in the correct orientation. Make sure the sensor probe is connected securely and completely. Use only official Sentinel Next probes from Aginova. Below is pictured an example of a probe that is properly connected.



6. Internal Wi-Fi Antenna

The Sentinel Next communicates via the internal 2.4Ghz antenna and is compatible with 802.11b/g/n Wi-Fi access points. The Sentinel Next is not compatible with 802.11ac and cannot communicate on the 5Ghz band.

When installing, it is best to ensure the front of the Sentinel Next is facing the Wi-Fi access point as directly as possible. It is best to ensure there are as few obstacles between the Sentinel Next and the Wi-Fi access point as possible.



Do NOT place the sensors inside refrigerators/freezers as the radio signal will get almost fully attenuated.

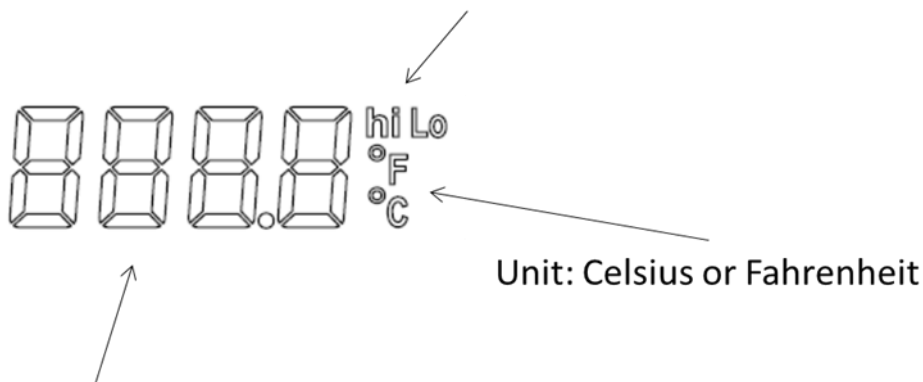
7. LCD Display Function

There are two Versions of LCD Display. If you do not know which version you have, contact Aginova support with the sensor ID and they can inform you whether you have Version 1 or Version 2. The following instructions are applicable to Sentinel Next sensors with optional LCD Display and firmware version 7.1.56 or newer.

Version 1

Hi: Indicate if a high alarm happend (not ack yet)

Lo: Indicate if a low alarm happend (not ack yet)

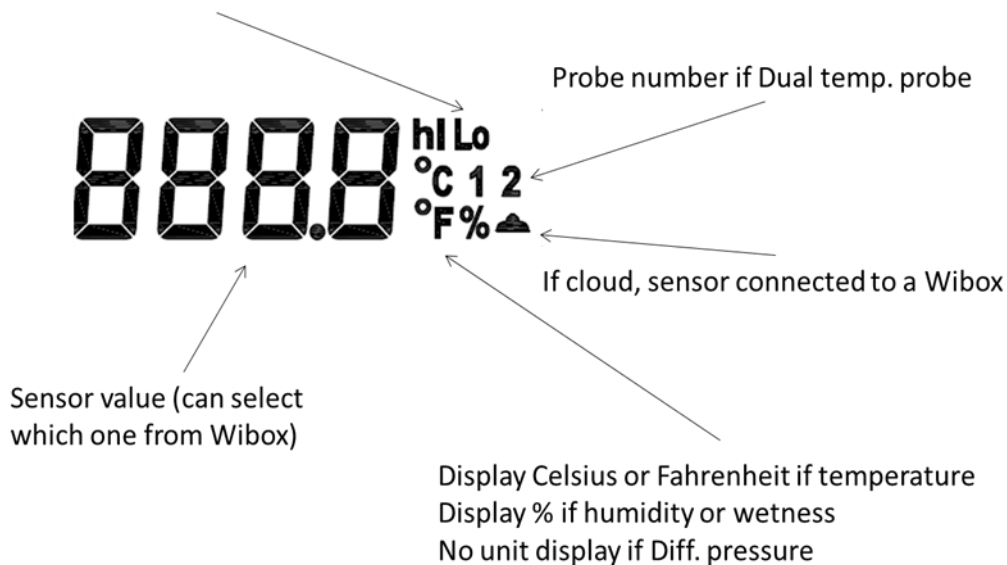


Display sensor data or -.- if None available

Version 2

Hi: Indicate if a high alarm happend (not ack yet)

Lo: Indicate if a low alarm happend (not ack yet)



Press button

If the Mode Button (3) is pressed once for less than 5s, the sensor will display all live sensor value in sequence. Then it will show the min and max of each sensor value since the last reset (using the LO and HI symbol) Pressing the Mode Button (3) again during this sequence resets the Hi and Lo values stored on the sensor.

Message

On: Mean sensor is switch On

Off: Sensor is switch Off

OtaP: Sensor is being re-flashed over the air

rst: sensor was reset using the press button (min and max values were reset)

ErrX: display the error message (check list below)

DirE: sensor is going to direct mode (after the button was pressed)

inFr: sensor is going to Infrastructure mode

CHAR: Sensor is off but the USB is connected (Lo symbol means not fully charged and HI symbol means fully charged)

COntF: Sensor is reconfigured

rOll: Sensor is rolling back to previous stable setting

Configuration

WiBox software is used to configure the display with default temperature Unit (C or F) and default data type to be displayed. This will be covered in the WiBox User Guide.

8. Troubleshooting

If there are unknown issues getting the Sentinel Next to connect to your network or report to the server, use the debug function (firmware version 7.1.42 or newer). Briefly press the Mode Button (3) and watch the Mode LED for any red blinking. Count the number of red blinks and refer to the table below.

Error	Number of red blinks
No error	0
No access point with corresponding SSID is found	1
Unable to authenticate	2
Security selection failure	3
DHCP failure	4
No HTTP connection with server	5
Unknown Error	6

Verify the following points:

- Make sure that your WiFi Access Point (AP) can reach the internet
- Verify that the AP is correctly configured (SSID, channels, DHCP, etc). You can use another device (PDA, laptop) to verify that it can reach the internet.
- Ensure sensor probe is properly connected to the Probe Input (5).
- Set the Sentinel Next back to Direct mode and use the Sentinel Next app to reconfigure it.

9. Learning More, Service and Support

You can find more information about the Sentinel Next and other similar products at www.aginova.com.

If you need assistance with your product, please follow these steps:

- A. Read the Troubleshooting section above.
- B. Try to find the information on www.aginova.com or www.aginova.info/support websites, especially on the support section and the FAQ.
- C. If you are still unable to find a solution, please create a Support Ticket, describe your problem and wait for support.

D. Do not submit RMAs unless technical support provides you with an authorization to do so.

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