# Wunder Weather Station Led status and blink sequences

There are 3 LEDs on the board. The device uses the green and orange LED to communicate routine status and the red LED to denote potentially problematic status.

The LEDs are also used as button press confirmation to signal entry to special modes such as factory reset, Wi-Fi configuration mode and boot loader mode.

## Normal Operation:

* All LEDs FLASH briefly immediately after power up or reset to signal program start-up.
* Green BLINKS rapidly while the device tries to establish a Wi-Fi connection. This state persists indefinitely or until a Wi-Fi connection is established. \*
* Green BLINKS at 1 second interval when a Wi-Fi connection has been established. This is the normal operation mode and persists indefinitely unless the connection has been lost.
* Orange BLINKS briefly when data is being sent to Weather underground.
* All LEDs ON steady indicates an ERROR condition. This state is preceded by an error message sent to the USB COM port for diagnostics. The system is locked in this state until reset is issued.

## Button Press Responses:

* All LEDs FLASHING in unison indicates that the factory reset function has been executed ( S1 held for longer than 4 seconds during reset).
* All LEDS ON steady indicates that the boot-loader state has been entered ( S2 held during reset).
* Orange ON steady while Green and Red are off indicates USB/UART configuration mode (S1 held <4 seconds during reset).

\*) A 10 minute watchdog resets the board if no WiFi connection could be established, starting the 10 minute time out over again.