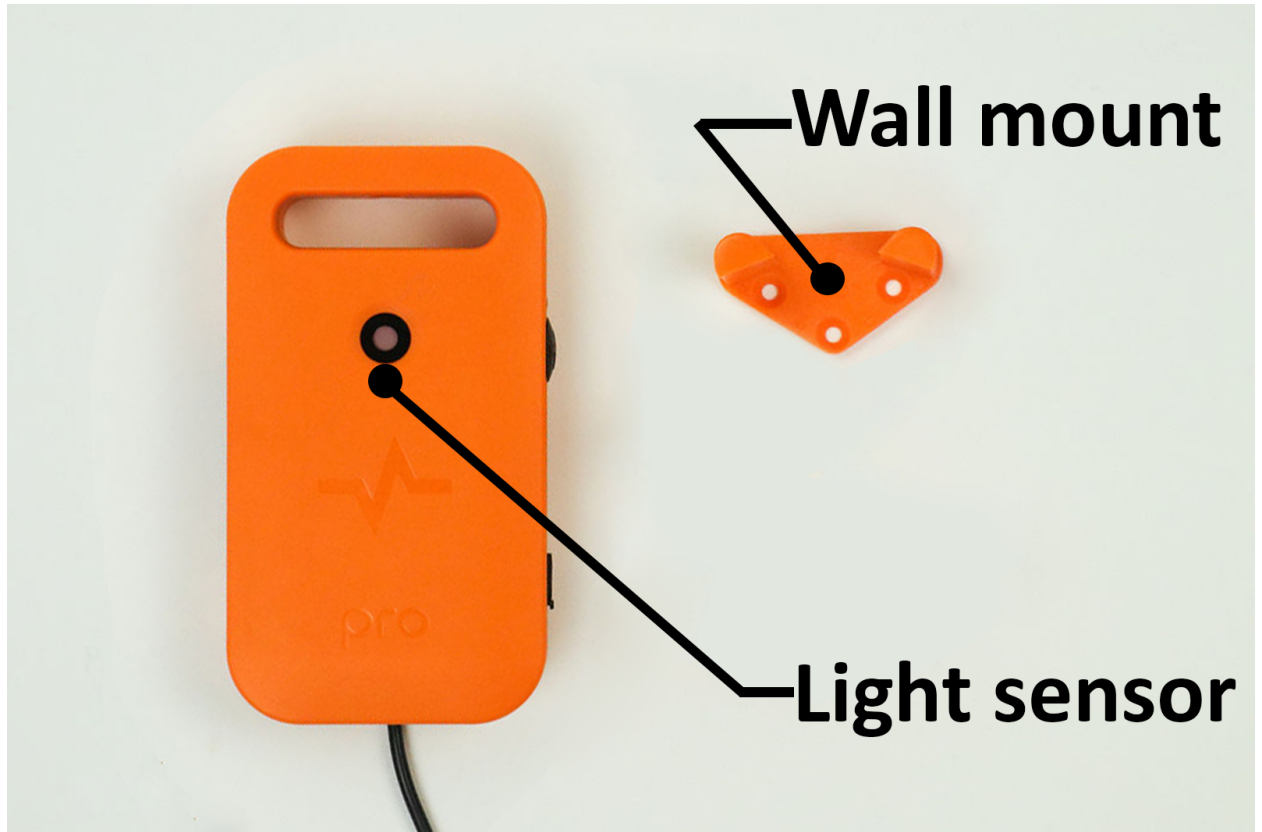


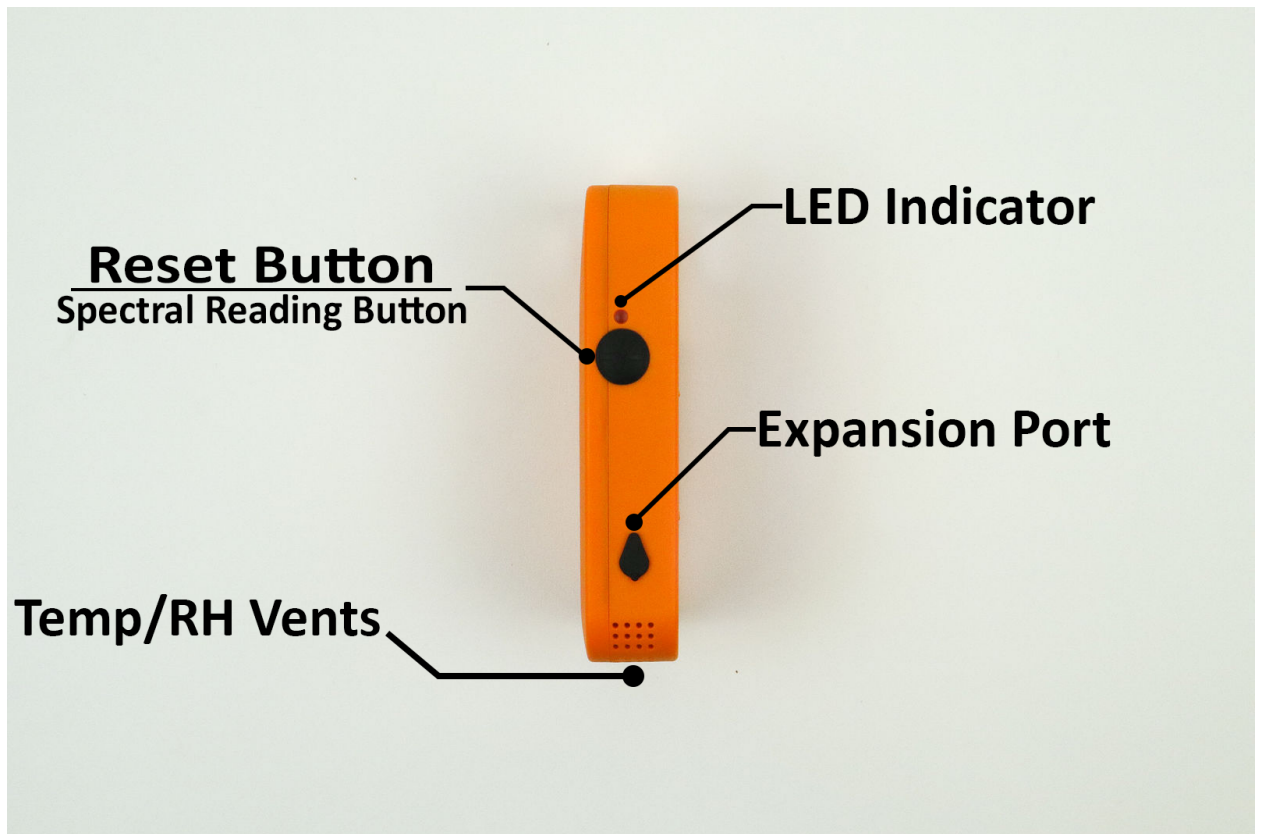
Parts of the Pulse Pro

Front



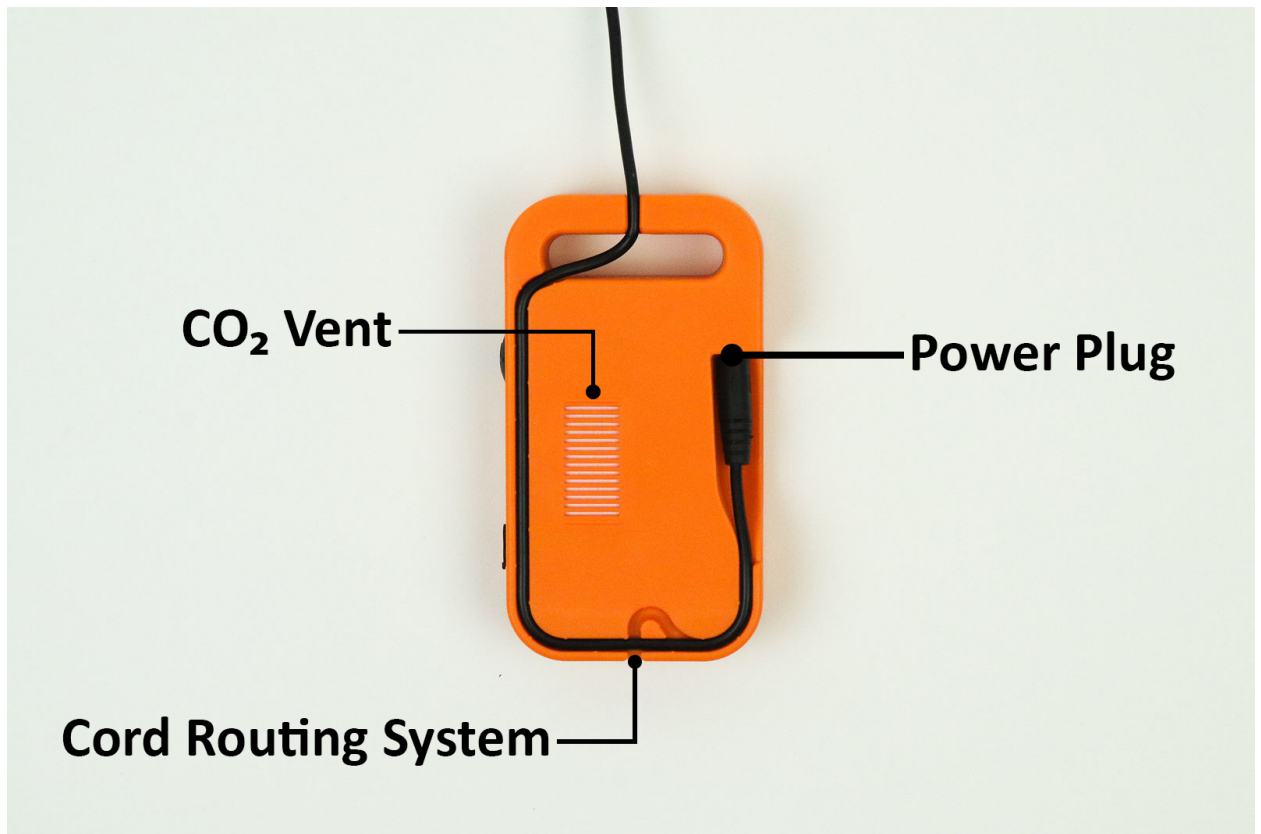
- The front of the Pulse Pro has a light sensor and associated lens. [Read this article for instructions on how to take spectral PAR/PPFD readings.](#)
- At the top is a hole if you want to hang the Pulse on a cord or loop. [Read this article for placement tips.](#)
- It also comes with a wall mount and 3 screws to attach the wall mount.

Side



- The button is used for setting up the device, for resetting the device, and for taking advanced light readings.
- The LED indicator on the side helps with troubleshooting connectivity issues. [See this troubleshooting article for more information.](#)
- The expansion port is for future extra sensors that will plug into the Pulse Pro.
- The temperature/RH vents are not protected from water or splashes. Make sure not to get any water on there.

Back



- The CO₂ vent is protected by a waterproof, gas permeable membrane.
- The power plug uses a 5v 3.5*1.35 mm barrel plug that is provided with the device. ***The device needs to be plugged in to remain fully functional***
- There's a cable routing system to help route the power cable either up or down. You can hang the device by the cable.

Pulse Pro Features

- Temperature sensor
- Humidity sensor
- VPD sensor
- Dew point sensor
- Atmospheric air pressure sensor
- CO2 sensor
- PAR/PPFD sensor
- Light spectral sensor
- Built in rechargeable battery so the device can be used as a hand-held PAR meter ***The device needs to be plugged in to remain fully functional***
- Water resistant sealing for everything except the temperature/RH vents
- Notifications and alerts

What's In The Box

1. Pulse Pro
2. Quick start guide
3. Wall mount
4. Screws for wall mount
5. Power adapter
6. Power cable

Internet Requirements

- 802.11n WiFi operating in the 2.4GHz band
- WEP, WPA or WPA2 security
- Channels 1-11
- No captive hotspots or enterprise wifi authentication which require logging into a browser window.

Setup Instructions

Read [this article](#) to get started with your Pulse Pro.

Specifications

Temperature and Humidity

- Max temperature: 130F (55C)
- Min temperature: 20F (-7C)
- Temperature sensor accuracy: $\pm 1F$ (0.5C)
- Max humidity: 90%
- Min humidity: 10%
- Humidity accuracy: $\pm 3\%$

CO2

- Measurement range: 400 ppm – 10.000 ppm
- Accuracy: $\pm(30 \text{ ppm} + 3\%)$

Spectral Sensor

- **Measurement range: 380nm - 1000nm**
- PFD (PAR) Range: 400-700nm
- PFD Blue Range: 400-500nm
- PFD Green Range: 500-600nm
- PFD Red Range: 600-700nm
- Worst Accuracy: $\pm(10 \text{ umol/s/m}^2 + 10\%)$
- Best Accuracy: $\pm(5 \text{ umol/s/m}^2 + 2\%)$
- Accuracy depends on light spectrum type, and spectral algorithm version

General

- Battery Life: 12 hours
- WiFi: 2.4 GHz, Channels 1-11
- WiFi range: 1000ft in ideal conditions, structures and interference reduce this
- Power: 110V-220V AC with 5V adapter
- Various attachment points: hanging loop, hang on screw, wall mount, hang by cord
- Warranty: 1 year, defects and workmanship
- Waterproofing: splash resistant

Dimensions

- Device Height: 4.5 inches (115 mm)
- Device Width: 2.5 inches (64 mm)
- Device Depth: 1.0 inches (25 mm)
- Device Weight: 3 ounces (85 grams)
- Box Height 6 inches (152 mm)
- Box Width 4 inches (102 mm)
- Box Depth 3 inches (76 mm)
- Box Weight 9.4 ounces (267 grams)
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