VPD MONITOR.COM
MEASURING PLANT VITALITY

Quick reference Guide 1.1

Vapour Pressure Deficit Monitor + Sensor Module (CO2 Sensor is optional)
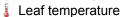
Increase your yields and prevent crop stress.

Our smart grow room monitor lets you track and optimise
the essential environmental conditions in your grow, and will send you instant alerts if
something goes wrong.

Dial in your grow with 24/7 live and historical data:

☁️ Vapour Pressure Deficit
🌡️ Ambient temperature
🌡️ Leaf temperature
💧 Relative Humidity
🌱 Dew Point

Get peace of mind with our cross-platform app:
Instant, reliable alerts, customised for your grow
locations, and WiFi networks viewable on one dashboard
Integrated memory to store and sync data in case of connection loss
Day & night averages for any selected time period
Connectivity & power outage notifications
Works on iOS, Android, PC, and Mac

VPD Monitor is made in the Netherlands, uses Swiss-made sensors, and is backed by a one
year warranty. If you have any questions or problems, our English speaking support team is
standing by to help, and if you're unsatisfied for any reason, we offer quick and easy
hassle-free returns.

Guarantee money back if you're not satisfied, for 30 days after receiving your order.
Warranty 1 year, defects and workmanship.

Box contents

1. VPD monitor Display unit
2. VPD sensor module with hanger (when applicable)
3. UTP cable (2 metre/ 79 inches)
4. Power Adapter AC/DC 12v 1A 12 W
5. Manual (English)

Features

● Calculates VPD
● Four sensors in one unit
● Measures ambient temperature, leaf temperature, air pressure, relative humidity
● Performs extremely accurate measurements
● Toggle on/off display lighting

Technical specifications
● Accuracy Relative Humidity: ± 4,5% RH
● Response time RH: 6 seconds
● Accuracy Temperature: ± 0,5 °C
● Temperature range: – 40 °C to 100 °C
● Rate of measurement: every second
● 1 UTP port
● Manual calibration impossible

Monitor Specifications

Dimensions

Device Height
3.5 inches (89 mm)

Device Width
5.1 inches (130 mm)

Device Depth
1.77 inches (45 mm)

Device Weight
7.4 ounces (210 grams)

Box Height
4.33 inches (110 mm)

Box Width
10.6 inches (260 mm)

Box Depth
6.3 inches (160 mm)

Box Weight
25 ounces (712 grams)

Power
110V-220V AC with 9V adapter

Sensors

Leaf Temperature
-40°F to 185°F (-40 to 85°C), ±1%

VPD
±4%, 1s response time

Humidity
Typ. relative humidity accuracy 3%RH
Operating relative humidity range 0 - 95 %RH
Response time (τ63%) 8s
Calibration certificate Factory calibration

Temperature
Typ. temperature accuracy 0.4 °C
Operating temperature range -40 - 70 °C
Response time (τ63%) 10 s
Generic Supply voltage 3.3 - 5.5 V
Average supply current 19000 uA
Max. supply current 75000 uA
Interfaces I²C, ModBus, PWM

Attachment Points: Keyhole / diagonal fit
Indoor/outdoor: indoor
Waterproofing:Splash-resistant
WiFi Spectrum: 2.4 GHz
WiFi Range: Over 1000 feet in ideal conditions, structures and interference reduce this

Dimensions blue sensor

Device Height
4.33 inches (110 mm)

Device Width
3.93 inches (100 mm)

Device Depth
3.93 inches (100 mm)

Device Weight
6.67 ounces (189 grams)

Device Weight - With CO2
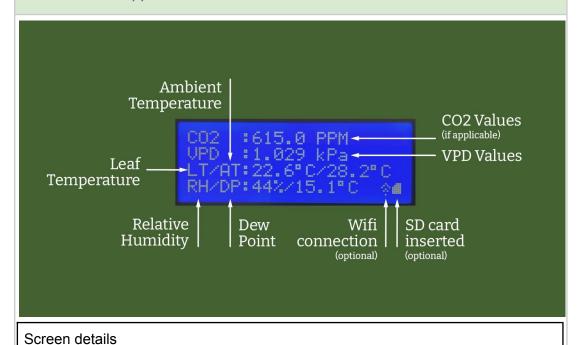6.8 ounces (192.5 grams)

Dimensions OCL LED sensor

Device Height
1.33 inches (34 mm)

Device Width
2.55 inches (65 mm)

Device Depth
3.93 inches (100mm)

Device Weight
2.32 ounces (66 grams)
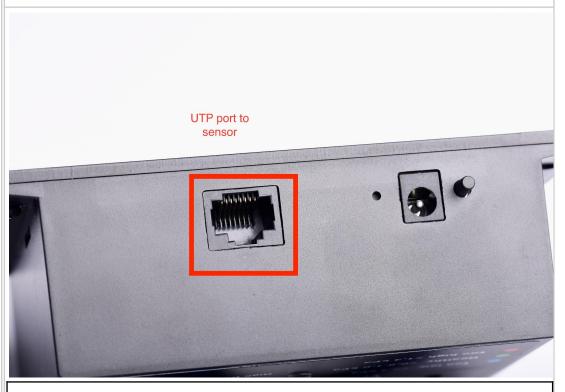
VPD Monitor Support

Screen details

Front view of the VPD display unit

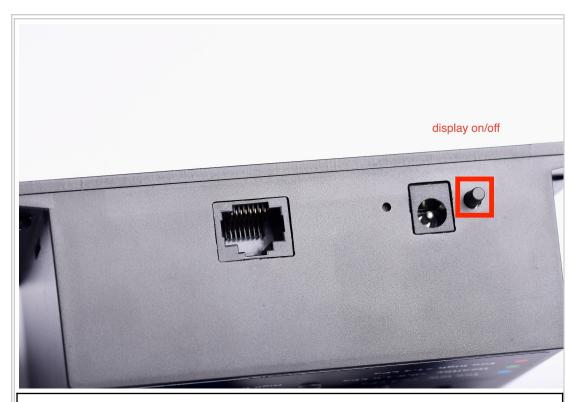VPD sensor unit

Bottom view of the sensor unit with the LT sensor visible

VPD sensor unit for OCL skwid fixtures

UTP port to sensor

UTP port that connects the Display unit to the sensor unit

display on/off

On/off switch for display lighting

TARGET VALUES

Low transpiration 0,5-0,7 kPa

kPa

High transpiration 1,1-1,3 kPa

SD card slot
(card not included)

SD card slot for (optional) sd card

Quick Installation steps

Place the VPDMonitor on a flat service, Preferably screwed onto a wall. Use the 2 diagonal keyholes on the side of the monitor. Connect the blue cable between the sensor unit and the VPDMonitor. (pic 1)

Connect the power adapter to the VPDMonitor on the bottom side (pic 2)

The VPDMonitor will boot and after 5 to 10 seconds you should see values flashing on the screen. The LED will indicate your VPD Values.

If you want to turn the screen off simply press the pushbutton on the bottom of the unit (pic 3)

FAQ's / troubleshooting

The monitor display doesn't appear to be working, what is wrong?

Push the button on the bottom of the VPDMonitor, this should turn on the screen.

My VPD monitor appears to be DOA (dead on arrival).

1. (see above)
2. Check all wirings first. Make sure the adapter is plugged in the wall socket and the barrel connector is in the monitor
3. If all looks good, do a hard reset by gently pushing a paperclip in the pinhole slightly right of the power connector. This should reboot the device.

Lost Satellite message on screen?

No you are not connected to any satellite, but this simply means the unit cannot see the sensor module.
First check the wiring. Make sure the UTP cable is undamaged and not near to any hot surfaces, like lamps or reflectors.
Check the connectors for damage or dirt / moisture. The electrical signal will be disturbed by moisture!

Can I turn off the display?

Yes, push the button on the bottom of the unit.

Terms and Conditions for VPD/Grow Monitor

1. **Introduction** These terms and conditions govern the use of the VPD/Grow Monitor (hereinafter referred to as "Monitor") provided by BlueClouds iot (hereinafter referred to as "Company"). By using the Monitor, you agree to these terms and conditions in full. If you do not agree to these terms and conditions, you must not use the Monitor.

2. **Use of the Monitor** You may use the Monitor to monitor the Vapor Pressure Deficit (VPD) and other environmental factors in your grow room or greenhouse. The Monitor is intended for use by individuals who are at least 18 years of age or older.

3. **Accuracy of Data** The Company makes no representation or warranty as to the accuracy, completeness, reliability or timeliness of the data provided by the Monitor. The data is provided on an "as is" and "as available" basis. You acknowledge and agree that the data may not be accurate, reliable, or error-free.

4. **User Conduct** You agree to use the Monitor in accordance with all applicable laws and regulations. You agree not to use the Monitor for any illegal or unauthorized purpose, including but not limited to, in violation of any intellectual property or privacy rights. You also agree not to use the Monitor to transmit any content that is unlawful, harmful, threatening, abusive, harassing, defamatory, vulgar, obscene, invasive of another's privacy, hateful, or racially, ethnically, or otherwise objectionable.

5. **Intellectual Property** The Monitor and all related intellectual property rights, including but not limited to, patents, copyrights, trademarks, trade secrets, and any other proprietary rights, are and shall remain the exclusive property of the Company. You shall not reproduce, distribute, or create derivative works from the Monitor or any of its components without the prior written consent of the Company.

6. **Termination** The Company may terminate your online use of the Monitor at any time for any reason without notice. Upon termination, you shall immediately cease using the Monitor.

7. **Limitation of Liability** The Company shall not be liable for any direct, indirect, incidental, special, consequential, or exemplary damages, including but not limited to, damages for loss of profits, revenue, data, or other intangible losses resulting from the use of the Monitor or the inability to use the Monitor.

8. **Indemnification** You agree to indemnify and hold the Company harmless from any and all claims, damages, expenses, and liabilities, including reasonable attorneys' fees, arising from your use of the Monitor or your violation of these terms and conditions.

9. **Governing Law** These terms and conditions shall be governed by and construed in accordance with the laws of the state or country where the Company is located, without regard to its conflict of law provisions.

10. **Entire Agreement**These terms and conditions constitute the entire agreement between you and the Company with respect to the use of the Monitor and supersede all prior or contemporaneous communications and proposals, whether oral or written, between you and the Company.

By using the VPD/Grow Monitor, you acknowledge that you have read, understood, and agreed to these terms and conditions

Return Policy for VPD/Grow Monitor

We are committed to ensuring that our customers are completely satisfied with their VPD/grow monitor purchase. If for any reason you are not satisfied with your purchase, you may return the item for a refund or exchange within 30 days of the original purchase date.

To be eligible for a return, the VPD/grow monitor must be in its original condition, including all packaging materials and accessories. The monitor must be free of any signs of use, damage, or modification.

To initiate a return, please contact our customer service team at support@vpdmonitor.com or call +31 334481394 Our team will provide you with a return merchandise authorization (RMA) number and instructions for returning the product.

You will be responsible for shipping the product back to us, and we recommend using a trackable shipping service to ensure safe delivery.

Once we receive the returned product, our team will inspect it to ensure it meets our return policy criteria. If everything is in order, we will process your refund or exchange within 7-10 business days.

Please note that we do not cover the cost of shipping for returns or exchanges, and any original shipping costs will not be refunded. Additionally, if the product is returned due to a defect or issue with the product, we will cover the shipping costs for the return.

If you have any questions or concerns about our return policy, please do not hesitate to contact our customer service team.

Thank you for choosing our VPD/grow monitor, and we hope to continue serving you in the future.

Privacy Policy
Effective Date: Januari 1st, 2023

1. Introduction

At BlueClouds, we are committed to protecting your privacy and ensuring that your personal information is handled in a safe and responsible manner. This Privacy Policy explains how we collect, use, disclose and protect your personal information.

2. Types of Personal Information We Collect

The personal information we collect about you may include, but is not limited to, your name, email address, telephone number, and any other information that you voluntarily provide to us.

3. How We Collect Personal Information

We may collect personal information from you when you:

- Contact us through our website, by email, phone or other means of communication;

- Participate in our online surveys, promotions or other marketing initiatives;

- Use our services.

4. Use of Personal Information

We may use your personal information for the following purposes:

- To provide you with the products and services you request;

- To respond to your inquiries and provide customer support;

- To send you marketing and promotional materials;

- To improve our services and develop new products;

- To comply with legal and regulatory requirements.

5. Disclosure of Personal Information

We may disclose your personal information to third parties for the following purposes:

- To fulfill the purpose for which you provided the information;

- To comply with legal and regulatory requirements;

- To protect our rights and property.

6. Security of Personal Information

We take reasonable precautions to protect your personal information from unauthorized access, use, or disclosure. However, no method of transmission over the Internet, or method of electronic storage, is 100% secure. Therefore, while we strive to use

commercially acceptable means to protect your personal information, we cannot guarantee its absolute security.

7. Access to and Correction of Personal Information

You may request access to your personal information that we hold, as well as request that we correct any inaccuracies in that information. Please contact us at [Insert contact details].

8. Changes to this Privacy Policy

We may modify this Privacy Policy from time to time. We will post any changes to this Privacy Policy on our website, and if the changes are significant, we will provide a more prominent notice.

9. Contact Us

If you have any questions or concerns about our Privacy Policy,

please contact us at +31334481394 or support@bluecloudsiot@gmail.com