



CALYPSO WEATHERDOT

温度湿度压力传感器

用户手册



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1 Product overview

The Weatherdot is a mini, compact and light-weight weather station that provides users with temperature, humidity and pressure and sends the data to the free Anemotracker App for viewing and for logging data.



2 Package content

The package contains the following:

- One Weatherdot.
- Wireless charging QI plus USB cable.
- Serial number reference in the bottom of the packaging.
- A quick user guide on the back of the packaging and some more useful information for the customer.

3 Technical specifications

The Weatherdot has the following technical specifications:

Dimensions

- Diameter: 43 mm, 1.65 in.

Weight

- 40 grams, 1.41 oz.

Bluetooth

- Version: 5.1 or beyond
- Range: up to 50 m, 164 ft or 55 yds (open space without electromagnetic noise)

The Weatherdot uses Bluetooth Low Energy technology (BLE).

BLE is the first open wireless communication technology that communicates between mobile devices or computers and other smaller devices such as our new wind meter.

Compared to Classic Bluetooth, BLE provides considerably reduced power consumption and cost while maintaining a similar communication range.

Bluetooth Version

The Weatherdot uses the latest BLE version which is 5.1. BLE facilitates the reconnection between devices when they leave and re-enter the bluetooth range.

Compatible devices

You can use our product with the following devices:

- Compatible Bluetooth 5.1 Android devices or beyond
- iPhone 4S or beyond
- iPad 3rd generation or beyond

Bluetooth Range

The coverage range is 50 meters when in an open space free of electromagnetic noise.

Power

- Battery-powered
- Battery life
 - 720 hours with full charge
 - 1,500 hours on standby (advertising)
- Wireless : charging QI

How to Charge the Weatherdot

The Weatherdot is charged by placing the unit on the base of the wireless charger upside down as shown in the photo. The base with the tripod screw and the lanyard should be facing up.

The average charging time for the Weatherdot is 1-2 hours. It should not be charged more than 4 hours at a time.

Sensors

- BME280
- NTCLE350E4103FHBO

The sensors of the Weatherdot measure temperature, humidity and pressure.

Data Given

- **Temperature**
 - Precision: $\pm 0.5^{\circ}\text{C}$
 - Range: -15°C to 60°C or 5° to 140°F
 - Resolution: 0.1°C
- **Humidity**
 - Precision: $\pm 3.5\%$
 - Range: 20 to 80%
 - Resolution: 1%
- **Pressure**
 - Precision: 1hPa
 - Range: 500 to 1200hPa
 - Resolution: 1 hPa

Temperature is given in Celsius, Fahrenheit or Kelvin.

Humidity is given in percentage.

Pressure is given in hPa (hectoPascal), inHG (inches of mercury), mmHG (millimetres of mercury), kPa (kiloPascal), atm (standard atmosphere).

Protection Grade

- IP65

The Weatherdot has a protection grade of IP65 . This means the product is protected against dust and low levels of jets of water from different directions.

Easy Mount

- Tripod mount (tripod thread (UNC1/4"-20))

The Weatherdot has a tripod thread for easy mounting to a tripod mount. A screw comes with the package that can be used to be attached to the Weatherdot and to any other item that has a tripod thread.

Calibration

The Weatherdot has been calibrated with accuracy, following the same calibration standards for each unit.

4. How to Use

1. Charge your Weatherdot before use.

- A. Place the unit on the base of the wireless charger upside down as shown in the photo.
- B. The base with the tripod screw and the lanyard should be facing up.
- C. The Weatherdot will be fully charged within 1-2 hours depending on the level of battery before charge.

2. Install the Anemotracker App

- A. Make sure your device has an active Bluetooth connection. The Weatherdot works with Android 4.3 and beyond or iOS devices (4s, iPad 2 or beyond).
- B. Download and install the Anemotracker App from Google Play or the Apple Store.



- C. Once the App is installed start it and open the settings menu by sliding the screen to the right.
- D. Press the "Pair Weatherdot" button and all Weatherdot devices within range will show up at screen.
- E. Select your device and connect. Your device is the one that corresponds with the MAC number on your Weatherdot box

3. Spin the Weatherdot in a circle for 80 seconds.

- A. To obtain Temperature, Pressure and Humidity, spin the Weatherdot by its lanyard around in a full circle during 80 seconds making sure to keep a firm grip on the lanyard at all times.

5. Troubleshooting

Troubleshooting Bluetooth connection

Your device is compatible but you can not connect?

1. Make sure BT (Bluetooth) mode is running on your smartphone, Tablet or PC.
2. Make sure the Weatherdot is not on Off mode. It is in Off mode when the unit does not have sufficient battery level.
3. Make sure no other device is linked to your Weatherdot.

Each unit can only be connected to a single device at a time. As soon as it gets disconnected, the Weatherdot is ready to link to any other device with the Anemotracker app installed and actively searching for available Weatherdots to connect to.

Troubleshooting Sensor Accuracy

If the Weatherdot is not spun, it will still give temperature, pressure and humidity, but it will not be as accurate.

1. Please make sure to spin the Weatherdot for 80 seconds.
2. Make sure no debris is around or near the sensors.

If the problem persists, please contact Calypso Technical Support at aftersales@calypsoinstruments.com.

6. Anemotracker App

The Weatherdot ballistics display mode is designed to be used with the Anemotracker App where you can get the Weatherdot data and log the data for future viewing.



For more information about Anemotracker App, and all that it offers, please see the latest app manual on our website.

7. Developers

Our hardware firm is dedicated to open-source principles. While specializing in hardware development, we've also created and maintain the Anemotracker App, designed to enhance the use of our products. Recognizing the diverse needs of our users, we understand that customized solutions are often required beyond our initial vision. That's precisely why, right from the start, we made the decision to open our hardware to the global community.

We wholeheartedly welcome third-party software and hardware companies to seamlessly integrate our products into their platforms. We've provided the resources you need to connect to our hardware, allowing you to effortlessly replicate the product's signals.

To assist you in connecting with our hardware, we've compiled a comprehensive Developer Instruction Manual for the Weatherdot, available at www.calypsoinstruments.com.

While we've aimed to make the integration process as straightforward as possible, we understand that questions may arise. If you require any assistance, please don't hesitate to reach out to us. You can contact us via email at info@calypsoinstruments.com or by phone at +34 876 454 853 (Europe & Asia) or +1 786 321 9886 (Americas).

8. General information

Maintenance and repair

The Weatherdot does not require great maintenance thanks to its streamlined design.

Important aspects:

- Do not attempt to access the sensors area with your fingers.
- Do not attempt any modification to the unit.
- Never paint any part of the unit or alter its surface in any way.

If you have any questions or doubts, please contact us directly.

Warranty Policy

This Warranty covers defects resulting from faulty parts, materials, and manufacturing, provided such defects become apparent within 24 months following the purchase date.

The Warranty becomes void if the product is used, repaired, or maintained in a manner not in accordance with the provided instructions and without written authorization.

This product is intended solely for leisure purposes. Calypso Instruments will not be held responsible for any misuse by the user, and as such, any damage caused to the Weatherdot due to user error will not be covered by this guarantee. The use of assembly components different from those originally provided with the product will nullify the warranty.

Alterations to the positions or alignments of sensors will render the warranty void.

For additional information, please reach out to Calypso Technical Support at aftersales@calypsoinstruments.com or visit our website at www.calypsoinstruments.com.



WEATHERDOT
中文版用户手册 2.0
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1. 产品概述

Weatherdot 是一个迷你、紧凑且轻便的气象站，为用户提供温度、湿度和气压数据，并将数据发送到免费的 Anemotracker 应用程序上，方便查看和记录数据。



2. 包装内容

包装内含以下内容：

- Weatherdot 设备。
- 无线充电 QI 以及 USB 充电线。
- 螺钉。
- 包装底部的序列号参考。
- 包装背面的快速用户指南及一些对客户有用的其他信息。

3. 技术指标

具有以下技术规格：

尺寸

- 直径: 42 mm, 1.65 in.
- 高度: 17 mm, 0.67 in.



重量

40 grams, 1.41 oz.

尺寸和重量使得 Weatherdot 成为一款紧凑且易于使用的产品。

蓝牙

- Version: 5.1 or beyond

Weatherdot 集成了低功耗蓝牙技术 (BLE)。

BLE 是首个开放式无线通信技术，为移动设备或计算机与其他小型设备（如我们的新风速仪）之间提供通信。

与传统蓝牙相比，BLE 在保持相似通信范围的同时显著降低了功耗和成本。

版本

BLE 版本为 5.1。它通过及设备离开和重新进入蓝牙范围时自动重连的功能，为用户带来了重要的便利。

蓝牙范围

在无电磁干扰的开阔空间中，覆盖范围约为 XX 米 + 如何检查电池电量待定。

电力

- 电池供电
- 电池寿命
 - 充满电可使用 720 小时
 - 待机可使用 1,500 小时
- 无线：Qi 充电



Weatherdot 通过将设备放置在无线充电基座上进行充电。

Weatherdot 的平均充电时间为 1-2 小时。每次充电时间不应超过 3 小时。

在任何情况下，Weatherdot 不应放置在充电器上超过 4 小时。

3. 技术规格

(继续)

传感器

BME280

Weatherdot 的传感器可测量温度、湿度和气压。

提供的数据

- 温度
- 湿度
- 压力

温度可以以摄氏度 (C)、华氏度 (F) 或开尔文 (K) 表示。

湿度以百分比 (%) 表示。

气压可以以 hPa (百帕斯卡)、inHG (英寸汞柱)、mmHG (毫米汞柱)、kPa (千帕)、atm (标准大气压) 表示。

防护级别

• IP65

Weatherdot 的防护等级为 IP65。这意味着产品防尘并且能够防止来自不同方向的低压水喷射。

易于组装

- 三脚架接口 (三脚架螺纹) (UNC1/4"-20)

Weatherdot 配有三脚架螺纹，便于安装到三脚架上。包装内附带螺钉，可用于将 Weatherdot 固定在三脚架或其他带有三脚架螺纹的设备上。

每台 Weatherdot 在出厂时都经过精准校准，并遵循相同的校准标准。

4. 使用方法



要获取温度、气压和湿度数据，请在 80 秒内将 Weatherdot 绕圈移动一周。

5. 安装应用程序并连接

Weatherdot

安装应用程序，请按照以下步骤操作：

1. 确保您的设备具有活动的蓝牙连接。Weatherdot 适用于 Android 4.3 及以上版本或 iOS 设备 (iPhone 4s、iPad 2 或更高版本)。

2. 从 Google Play 或 Apple Store 下载并安装 Anemotracker 应用程序。



3. 安装完成后，启动应用程序并通过向右滑动屏幕打开设置菜单。

4. 点击“扫描 Weatherdot”按钮，屏幕上会显示范围内的所有 Weatherdot 设备。

5. 选择您的设备并连接。

如果您的设备正确连接到 Weatherdot，请继续正常安装流程。

8. 一般信息

8.1. 维护和修理 (继续)



*温度传感器。



*气压和湿度传感器。

如果您有任何问题或疑虑，请直接联系我们。

8.3 保修

本保修涵盖由于零件、材料和制造缺陷导致的缺陷，如果这些缺陷在购买日期后的 24 个月内被发现。

如果未遵循使用说明，或未经书面授权进行修理或维护，则保修无效。

8.3 保修 (继续)

本产品仅限于休闲用途。用户的任何不当使用将不承担 Calypso Instruments 的责任。因此，由于操作错误造成的任何损坏将不在保修范围内。使用与产品随附的组装部件不同的配件将使保修失效。

传感器位置/对准的任何变化都将导致保修失效。

如需更多信息，请通过 sales@calypsoinstruments.com 联系 Calypso 技术支持，或访问 www.calypsoinstruments.com

5. 安装应用程序并连接

Weatherdot (继续)

如果未能连接，请阅读以下内容。

您的设备兼容但无法连接？

1. 确保智能手机、平板电脑或电脑上的蓝牙 (BT) 模式已开启。

2. 确保 Weatherdot 未处于关闭模式。当电量不足时，设备会进入关闭模式。

3. 确保没有其他设备连接到您的 Weatherdot。

每台设备只能一次连接到一个设备。一旦断开连接，Weatherdot 就可以与安装了 Anemotracker 应用程序的任何其他设备重新连接。

如需更多信息，请联系 Calypso 技术支持。

6. Anemotracker App

Weatherdot 的弹道显示模式设计用于与 Anemotracker 应用程序一起使用。在该应用程序中，您可以获取 Weatherdot 的数据并记录数据以供日后查看。



有关 Anemotracker 应用程序及其所有功能的更多信息，请参阅我们网站上的最新应用程序手册。

7. 开发商

我们的硬件是开源的。

我们是一家硬件公司，但我们开发并维护 Anemotracker 应用程序，以便与我们的产品一起使用。我们意识到用户的多样化需求需要超出我们想象的定制解决方案，这就是为什么我们从一开始就决定将我们的硬件开放给世界。

我们鼓励第三方软件和硬件公司根据自己的需求在其平台上集成我们的硬件。

在这里，您可以学习如何连接我们的硬件。您可以复制产品信号，因此无需购买硬件就能立即开始使用。

您可以在 www.calypsoinstruments.com 找到 Weatherdot 的开发者说明手册。

我们尽可能简化了通信过程；然而，如果您需要支持，请随时通过电子邮件 (info@calypsoinstruments.com) 或电话 +34 876 454 853 (欧洲和拉丁美洲) 或 +1 786 321 9886 (美洲) 与我们联系。

8. 一般信息

8.1. 维护和修理

由于 Weatherdot 的简洁设计，它不需要太多的维护。

重要事项：

- 不要尝试用手指接触传感器区域。
- 不要尝试对设备进行任何修改。
- 切勿涂漆设备的任何部分或以任何方式改变其表面。