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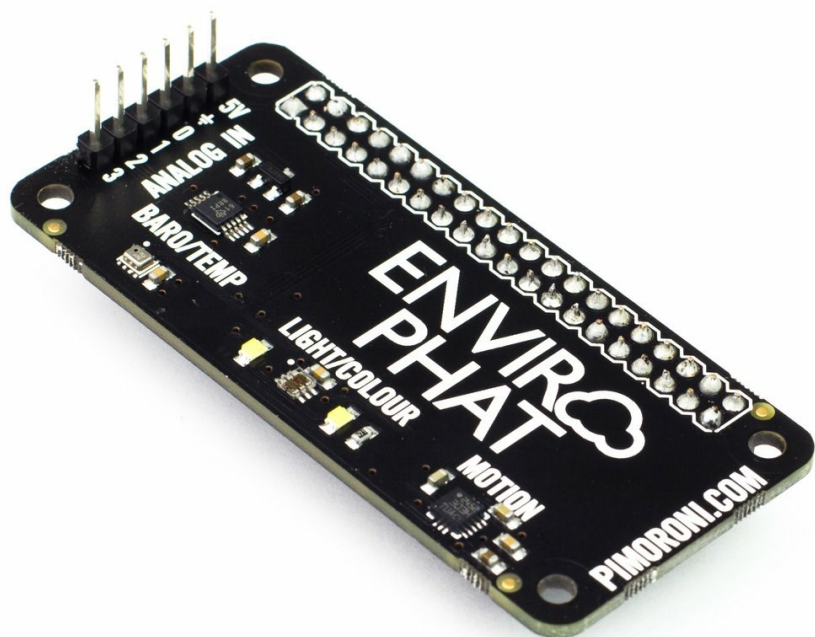


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Enviro pHAT

Enviro pHAT packs 4 different sensors, letting you measure temperature, pressure, light level, colour, 3-axis motion, compass heading, and analog inputs. That's up to 10 different variables! [Read more...](#)

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Enviro pHAT

Enviro pHAT packs 4 different sensors, letting you measure temperature, pressure, light level, colour, 3-axis motion, compass heading, and analog inputs. That's up to 10 different variables!

It's ideal for monitoring conditions in your house, garage, or galleon. Set up a web server with Flask and remotely monitor everything from anywhere.

Combining Enviro pHAT with our other HATs and pHATs gives almost endless possibilities: display sensor values on [Unicorn pHAT](#), use [Display-O-Tron HAT](#) to display sensor data, display a graph of values with [Scroll pHAT](#), and much, much more.

[The MagPi](#) gave Enviro pHAT five stars and called it a "fun, easy-to-use add-on with plenty of possibilities".
Downloaded from [Arrow.com](#)

Features

- BMP280 temperature/pressure sensor
- TCS3472 light and RGB colour sensor
- Two LEDs for illumination
- LSM303D accelerometer/magnetometer sensor
- ADS1015 4-channel 3.3v, analog to digital sensor (ADC)
- [Enviro pHAT pinout](#)
- Compatible with Raspberry Pi 3B+, 3, 2, B+, A+, Zero, and Zero W
- [Python library](#)
- **Female header and ADC male header require soldering**

Software

We've put together a comprehensive [Python library](#) to make using Enviro pHAT really simple, as well as examples of motion detection and temperature threshold triggering.

Our software does not support Raspbian Wheezy.

Reviews



24 Reviews

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Anonymous ★★★★★

3 days ago

Bojan Kuzmic ★★★★★

7 days ago

Tom Bishop ★★★★★

A couple of these arrived in the post for me the other day. Normally I'd play safe and use one of Pimoroni's excellent solderless hammer headers, but I'm making a concerted effort to improve my soldering skills, so last night I soldered all 160 pins on two Pi Zero Ws and the two Enviro Phats. Luckily, nothing was fried and it all works as expected! The provided Python library is super-easy to install and use: I made one simple test script to print readings to the console and then quickly wrote another to post readings to my Openhabian-running Pi3. In under an hour, I went from a couple of dogily soldered bits, to a sensor that can turn the bedroom fan on when the room gets too hot, and off again when it gets cooler in the night (with the help of a smart plug) and that includes flashing the SD card. If you're looking to get temperature, pressure, light or accelerometer data and manipulate it in Python, I can't imagine it being any easier than it is with this pHAT. Outstanding value, too, since when the colder weather draws in, I can easily repurpose it to do something different, perhaps turning on the lights when it gets dark? Maybe I can add a PIR sensor to the extra sensor inputs? The possibilities are endless!

48 days ago

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4.9 ★★★★★
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