

# Barometer Phidget



If you're looking for an air pressure sensor that's accurate and affordable, the Barometer Phidget has you covered. It connects to a **VINT port** and measures absolute pressures within the range of 50kPa and 110kPa, making it great for barometer applications (See the "Compatible Products" tab for a list of VINT Hubs). If you happen to read a pressure outside of this range, an error will be thrown telling you that the measurement has saturated.

## Altitude Measurement

Once you have an absolute pressure reading, you can correct for altitude, resulting in a corrected atmospheric pressure reading. Alternatively, you could calibrate the sensor to measure changes in elevation, making it an altimeter. For more details on how to implement these calculations, see the technical section of the User Guide.

## Product Specifications

### Board Properties

Controlled By	VINT
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### Sensor Properties

Sensor Type	Gas Pressure (Absolute)
Pressure Min	50 kPa
Pressure Max	110 kPa
Pressure Resolution	250 mPa
Measurement Error Max	$\pm 0.62\%$
Relative Measurement Error Max	$\pm 0.08\%$
Sampling Interval Max	60 s/sample
Sampling Interval Min	100 ms/sample

### Electrical Properties

Current Consumption Min	25 $\mu$ A
Current Consumption Max	4 mA

### **Physical Properties**

Operating Temperature Min	-40 °C
Operating Temperature Max	85 °C