

POCKETLAB – Nano Maker Kit Specifications

Device Specification

ACCELEROMETER

- Range: $\pm 16g$
- Resolution: 0.008 g @ 94 Hz
- Data Rate:
 - 50 samples/sec (real-time)
 - 200 samples/sec (coming soon in burst mode)

GYROSCOPE

- Range: ± 2000 deg/sec
- Resolution: 0.1 deg/sec @ 92 Hz
- Data Rate:
 - 50 samples/sec (real-time)
 - 200 samples/sec (coming soon in burst mode)

MAGNETOMETER

- Range: ± 4800 uT
- Resolution: 0.15 uT
- Data Rate: 50 samples/sec

BAROMETRIC PRESSURE

- Range: 30 - 180 kPa
- Pressure Resolution: 1.3 Pa
- Absolute Accuracy: 0.1 kPa

HUMIDITY

- Range: 0-100 %RH
- Resolution: 0.02 %RH
- Absolute Accuracy: 3 %RH

LIGHT

- Range: 0.01 - 64,000 Lux
- Spectrum: 400 - 1000 nm (Visible light)
- Data Rate: 30 samples/sec

ALTITUDE

- Range: -5,300 - 9,500 m (-17,400 - 31,000 ft)
- Resolution: 11 cm (4 in)
- Absolute Accuracy: 10 m (33 ft)
- Data Rate: 50 samples/sec

AMBIENT TEMPERATURE

- Range: -40 - 85 C (-40 - 185 F)
- Resolution: 0.01 C (0.02 F)
- Absolute Accuracy: 0.5 C (0.9 F)

IR RANGE

- Range: 2m typical, 1.5m minimum (indoors)
- Resolution: 1 cm (0.4 in)
- Absolute Accuracy: 5% of reading
- Data Rate: 33 samples/sec
- Field of View: 25 degrees

TEMPERATURE PROBE

- Range -40 - 105 C (-40 - 221 F)
- Resolution 0.2 C (0.4 F)
- Absolute Accuracy 0.5 C (0.9 F)

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App Requirements

IOS

- iPhone 4s and newer
- iPad all models except iPad2 and iPad1
- iPod Touch 5th gen and newer

ANDROID 5.0 AND NEWER

- Most phones and tablets made since 2013 with Bluetooth 4.0
- Wireless connection support required
- Tested devices: Samsung Galaxy S4, Note 2, Galaxy S7, Nexus 7 Tablet

WINDOWS 10

- Coming soon

MACOS

- Macbook, Macbook Pro, Macbook Air with OSX 10.11 or later

CHROMEBOOK

- Most Chromebooks made since 2013 with Bluetooth 4.0
- Tested devices: Dell Chromebook 11, CTL NL6, Google Pixel

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