



# Panda

## 9 Sensors in your hand



**Ambient Temperature, Light, Sound, Barometer, Altitude,  
Humidity, Dew-Point, Acceleration, Magnetic field  
Sensors – All in one multi-sensor module with  
Battery, Color display, touch screen and USB PC connection**

- Wise, simple, fun, intuitive, user friendly plug and play module
- Fully autonomous logger sensors module
- Collect data anywhere
- Can be expanded with all Edu-Logger sensors
- No calibration and maintenance
- Internal flash memory for saving experiments
- One software for all platforms by wire or by wifi: Windows, MAC, Linux, Android, IPAD, Smartphones
- Experiments can be viewed in real time by all students in the class
- Sensor ranges and gains are changed by software
- Saved experiments can be uploaded to a PC or mailed at any time

## Description

The Panda is a multi-sensor module that includes built in 9 sensors: Ambient Temperature, Light, Sound, Barometer, Altitude, Humidity, Dew-Point, Acceleration, Magnetic field. It includes also a rechargeable battery, 3.2" (320X240 pixels) color display, touch screen and USB connector.

The Panda is aimed for environment data collection and experiments in biology, physics and chemistry. All Edu-Logger sensors can be connected in a chain to the Panda including GPS module.

The Panda can be connected by wire to PC or MAC through USB.

The Panda can be expanded by WiFi module for wireless communication with PC, MAC, IPADs, tablets and smart-phones.

## How it works

The panda is operated by independent internal firmware for performing experiments and data collection.

At normal mode, the Panda displays the value measured of one of its internal or external sensors at one of the display options:



At experiment record displays the Panda the sampled values of up to two sensors although it records in flash memory values of all the experiment participating sensors. These values can be displayed at any time.

The Panda computer (PC, MAC or tablet) software, specially designed for primary school, is unique, super friendly and so intuitive to operate and understanding.

The Panda can also be operated by the standard rich and strong Edu-Logger standard computer software.

Panda and Edu-Logger programs are 'You See What You Need' software. They can be used easily without any user manual. Just 'Plug and Play'!

## **Specifications:**

<b>Range and operation modes</b>	<b>ADC resolution</b>	<b>Resolution</b>	<b>Max Sampling Rate (Samples/Sec)</b>
<b><u>Temperature Sensor</u></b>			
-40 °C to 140 °C	12 bit	0.1 °C	100
-40 °F to 284 °F	12 bit	0.1 °F	100
<b><u>Light Sensor</u></b>			
1,000	16 bit	1 Lx	100
6,000	16 bit	1 Lx	100
60,000	16 bit	1 Lx	100
<b><u>Barometer Sensor</u></b>			
80 to 110 kPa	24 bit	0.1 kPa	100
0.78 to 1.08 atm	24 bit	0.01 atm	100
23.62 to 32.48 in Hg	24 bit	0.01 in Hg	100
600 to 825 mm Hg	24 bit	0.1mm Hg	100
<b><u>Altitude Sensor</u></b>			
-722 to 2000 m	24 bit	0.9 m	100
<b><u>Sound Sensor</u></b>			
40 to 110 dB	12 bit	0.1 dB	100
<b><u>Humidity Sensor</u></b>			
0 to 100 %	16 bit	0.1 %	100
<b><u>Dew-Point Sensor</u></b>			
-114 to 109 °C	12 bit	0.1 °C	100
-182 to 228 °F	12 bit	0.1 °F	100
<b><u>Acceleration Sensor</u></b>			
X -40 to 40 m/s <sup>2</sup>	16 bit	0.01 m/s <sup>2</sup>	100
Y -40 to 40 m/s <sup>2</sup>	16 bit	0.01 m/s <sup>2</sup>	100
Z -40 to 40 m/s <sup>2</sup>	16 bit	0.01 m/s <sup>2</sup>	100
<b><u>Magnetic Field Sensor</u></b>			
-200 to 200 uT	16 bit	0.1 uT	100