

The sensor measures the pressure in the cuff wrapped on the tested person's arm.

Heartbeats affect the blood pressure. That is the reason for the difference between the systolic and diastolic pressure of the tested person.

The sensor has three ranges:

- The average pressure in the air pillow in mm Hg.
- The pressure beats in arbitrary units.
- The sum of the two above signals. This increases sensibility for the req calculations.

The NeuLog software extracts the following from the blood pressure graph:

- The systolic blood pressure
- The diastolic blood pressure
- The Mean Arterial Pressure (MAP) blood pressure
- The heart beat rate



Specifications

- Used in the fields of Exercise Science, Biology, Physiology, Human Health, etc.
- Uses the piezoresistive effect.
- Includes a blood pressure cuff attached directly to the sensor by flexible rubber tubing and a pump with pressure release valve attached directly to the blood pressure cuff
- The sensor is pre-calibrated at the factory.
- Experiment duration: 1 second to 31 days.

Range and operation modes	MM Hg	Arb	mm Hg + arb
ADC Resolution	0 to 380	0 to 820	0 to 380
Resolution	13 bits		
Max sample rate (S/sec)	0.12	0.1	0.02 mm Hg

Sensor Requirements

Hardware

• USB Module (USB-200)

Direct connection to the computer (PC, Mac, XO, or Linux)



or

• WiFi Module (WIFI-201 or WIFI-202)

Wi-Fi communication – For any device which uses WiFi technology (ipads, Tablets, Smartphones and Computers)



• Optional Accessories:

Battery Module, RF Communication Module, Graphic Display Module, Digital Display module



Software

- Application for Windows
- Application for Mac
- Web Application for WiFi module
- NeuLog Software



Multiple logger sensors can be used together!

