

LPEMMG-B2

Wireless wearable sensor for human motion and EMG/MMG signals acquisition:
embedded surface electrodes

The LP-Research electromyography (EMG)/mechanomyogram (MMG) sensor Bluetooth version 2 (LPEMMG-B2) is a miniature electromyography/ mechanomyogram measurement solution. It uses gold-coated surface electrodes for EMG signal measurements and microphones for recording muscle sounds. An inertial sensor is also integrated for human motion capture.

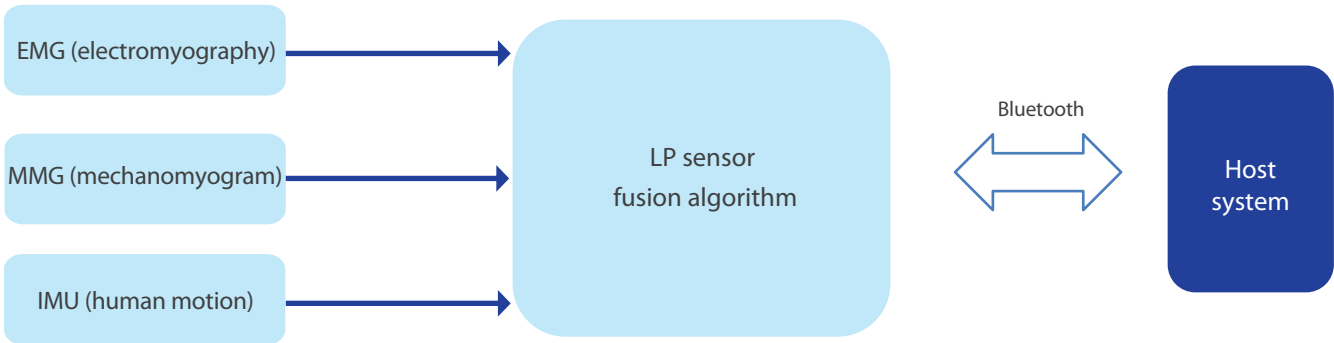


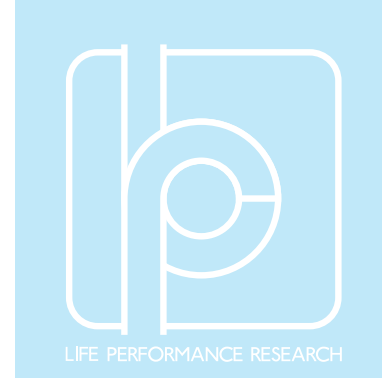
Main Features

- integrating EMG/MMG measurements
- use of gold-coated surface electrodes
- integrating 3 axis accelerometer, 3 axis gyro and 3 axis magnetometer
- max sampling rate of EMG: 2000Hz
- wireless communication: Bluetooth Classic 2.1
- SDKs for Windows, Linux and Android systems

Application:

- Internet of things (IOT)
- Motion analysis
- Rehabilitation
- Healthcare



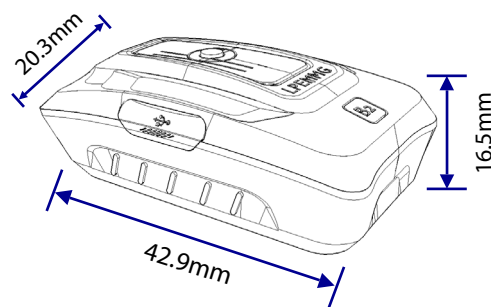


Specification

Parameter	LPEMMG-B2
Size	42.9×25.4×16.5mm
Weight	12.7g
Bluetooth	BT 2.1+EDR, 2.142-2.484 GHz
Communication range	<18 m
EMG sampling rate	~2000Hz
MMG sampling rate	~1600Hz
IMU sampling rate	~1600Hz
EMG ADC resolution	16 bits
MMG sensitivity	-26dBFS
MMG SNR	64 db
Power supply	Lithium battery 3.7v@130mAh
Power consumption	<70mA@3.7V
Drivers	Windows, Android and Linux

Dimension

LPEMMG-B2:



* MMG signal is an optional output. Please contact us for more information.

Package

- LPEMMG-B2 sensor x 1
- User guide card x 1
- USB cable x 1
- Package box x 1
- Warranty: 1 year



GUI in Windows

