



- Home
  - About
  - Technology
  - Products
  - Applications
  - Contact
  - News
  - View Cart
  - Join In
  - Download
  - Research
  - Support
  - Purchase
  - Blog
  - Members
- 

- All Products
- Development Kits
- Sensor and modules
- Accessories



### Wireless EMG Sensor

**Price:** €147.00

Description	Images	Specifications	Similar Products
<p>Highly economical wireless EMG acquisition system using conventional disposable electrodes</p> <p><b>Description</b></p> <p>The Shimmer EMG (Electromyogram) measures and records the electrical activity associated with muscle contractions, assesses nerve conduction and muscle response in injured tissue, activation level, or can be used to analyze and measure the biomechanics of human or animal movement. The Shimmer EMG is non-invasive (surface EMG) and therefore is a representation of the activity of the whole muscle. The Shimmer EMG connects to the internal connector pin on the Shimmer mainboard, and is enclosed within the Shimmer unit, with application to the skin via conventional disposable electrodes. The EMG works just like the existing Shimmer ECG daughter board allowing the addition of EMG measurement to existing Shimmer systems as a drop-in replacement with no software changes required except to support higher sampling rates.</p> <p><b>Key Features</b></p> <p>The Shimmer EMG daughter board is a highly economical wireless EMG acquisition system, which offers greater ergonomics to the traditionally larger, and more expensive wired units. This is combined</p>			

with a lightweight, small form factor for wearable applications, greater flexibility and ease of integration into existing products and real world applications. The EMG daughter board captures data to the highest industry standards, it has been clinical validated to provide accurate measurements of surface EMG, and has received CE certification ensuring it has met EU consumer health and safety requirements for medical equipment.

### Applications

Surface EMG has a many clinical applications and is frequently used in kinesiologic analysis of movement disorders, for differentiating types of tremors, myoclonus, and dystonia, for evaluating gait and posture disturbances, biofeedback, physical performance test and measurement, therapeutic activities, and for evaluating psychophysical measures of reaction and movement.

Download the [Shimmer Wireless EMG Sensor Data Sheet](#).

**Code:** SH-EMG-KIT-002. Includes EMG daughterboard and EMG top enclosure only. Shimmer baseboard sold separately.