

Wearable Sensors for Applied & Clinical Research

FIRST LINE EXTENSION






Introducing Verisense **Pulse+**. Now providing photoplethysmogram (PPG), galvanic skin response (GSR), and accelerometer data. The PPG sensor monitors heart rate by using light reflectance and the GSR sensor measures changes in sweat gland activity. Verisense by Shimmer sensor now measures heart rate, and skin conductance over different time periods in addition to the continuous collection of raw triaxial accelerometer data.

OUR SOLUTION

Verisense is a flexible sensor designed from the ground up specifically to meet the challenges of applied research.

Building on from the Verisense IMU providing continuous collection of raw triaxial accelerometer data, Pulse+ adds versatility and flexibility to your research.

KEY BENEFITS

-  Photoplethysmogram (PPG)
-  Galvanic Skin Response (GSR)
-  Continuous raw data*
-  Flexible styling options
-  Lightweight

*Configuration dependent

Accelerometer	Sample Rate: 12.5Hz, 25Hz, 50Hz, 100Hz Range: $\pm 2g$, $\pm 4g$, $\pm 8g$, $\pm 16g$
GSR Measurement	Sample Rate: 5.12Hz, 10.24Hz, 20.48Hz, 51.2Hz Range: $8k\Omega$ - $4.7M\Omega$ ($0.2\mu S$ - $125\mu S$)
GSR Frequency	DC-15.9Hz
PPG Module	Sample Rate: 50Hz, 100Hz Integrated LED's: Red, Green, Blue & IR. Reflective Heart rate monitor. Recording interval: 15 mins, 1/3/6/12Hrs, 1 day
Size excl. strap	35mm x 43mm x 12mm
Weight	37 grams (1.3 ounce)
Connectivity	Bluetooth 5, Configurable upload interval
Compliance	FCC, CE
Storage	Up to 10 days at 25Hz triaxial accelerometer

INTEGRATION OPTIONS

Develop functions such as:
Programming & data retrieval via C# BLE API & MATLAB examples
Also via Bluetooth Commands

