BioHarness

Real-Time Portable Physiological Monitoring



Key Features

- Measurement of heart rate, breathing rate, temperature, posture, and activity
- Remote viewing of real-time sensor readings on a PC within a 2-mile radius
- GPS sensor for tracking on a local map
- Continuous datalogging
- Quick setup and easy to use

Applications

- HazMat & Emergency Response
- Confined Space Entry
- Environmental Remediation
- Industrial Cleanup
- Fire Overhaul
- Clinical Studies

The RAE Systems BioHarness is a lightweight, chest-worn strap that incorporates ECG (electrocardiogram) and breathing rate sensors for real-time portable physiological monitoring. The BioHarness links to a RAELink3 portable modem which enables the long-range wireless radio to transmit sensor readings and GPS coordinates in real time to a PC running ProRAE Guardian safety monitoring software.

The BioHarness facilitates quick assessment of an individual's health status so that work levels can be modified to reduce the risk of threats such as heat stress. The RAE Systems BioHarness readings can be coupled with a variety of other safety sensors for the detection and characterization of hazardous atmospheres using ProRAE Guardian.

- Quick assessment of health status
- Reduce risk of heat stress by adjusting work levels
- Improve team efficiency
- Perform post-event analysis
- Low life-cycle cost with no consumable components

BioHarness Kit Comes With:

- BioHarness chest strap with shoulder support harness
- USB charging cable with AC adapter
- RAELink3 Kit
- Quick Start Guide
- CD with documentation

BioHarness Team Kit Comes With:

- 8 BioHarness chest straps
- 4 RAELink3 wireless modems
- Rugged carrying case
- Complete accessories









BioHarness

Real-Time Portable Physiological Monitoring

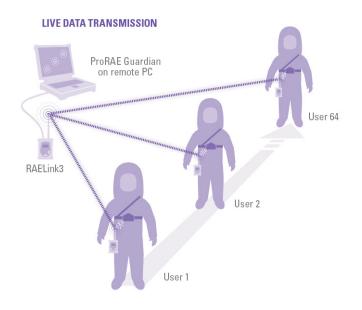
Sensor Module Size Sensor Module Weight Strap Fabric Operating Temperature Humidity Battery Run Time Charging Time **IP** Rating Wireless GPS Accuracy (via RAELink3)

3" x 2.2" x 0.6" (76mm x 56mm x 16mm) 2 oz (60g) Washable conductive smart fabric -25° to 140° F (-30° to 60° C) 0% to 95% relative humidity (non-condensing) 4.2V Li-Ion rechargeable Up to 8 hours 3 hours IP-67 Up to 2 miles (refer to RAELink3 datasheet for complete details) Within 5 meters

Sensors

Heart Rate Respiration Activity Skin Temperature Posture

25 to 240 BPM (±1 BPM) 3 to 70 BPM (±1 BPM) (±) 3.3g in each axis (Vertical/Lateral/Sagittal) 41° to 140° F ± 2° (5° to 60° C ± 0.1°) ± 90°





NSW OFFICE Telephone +61 2 9451 0054 Facsimile +61 2 9450 0833 Email info@gastech.com.au 21/25, Narabang Way Belrose NSW 2085

HEAD OFFICE Telephone +61 8 6108 0000 Facsimile +61 8 9408 1868 Email info@gastech.com.au 24 Baretta Road Wangara, Western Australia 6065

Specifications subject to change without notice (Nov14)