

# Zephyr™ PSM Responder



Physiological Status Monitoring (PSM) is the real time visibility into the physical status of personnel operating in high stress and extreme environments. PSM measures vital signs in the context of posture and movement, and interprets the signals to help predict the onset of heat stress, dehydration & fatigue.

## PSM Responder Applications

Designed for teams of people deployed in harsh environments, the PSM Responder system enables remote monitoring of multiple personnel simultaneously. The PSM Responder system is for both training and live deployment situations for HAZMAT, CBRN, EOD, Confined Space, SWAT and any other team that deploys into extreme situations.

## PSM Responder Advantage

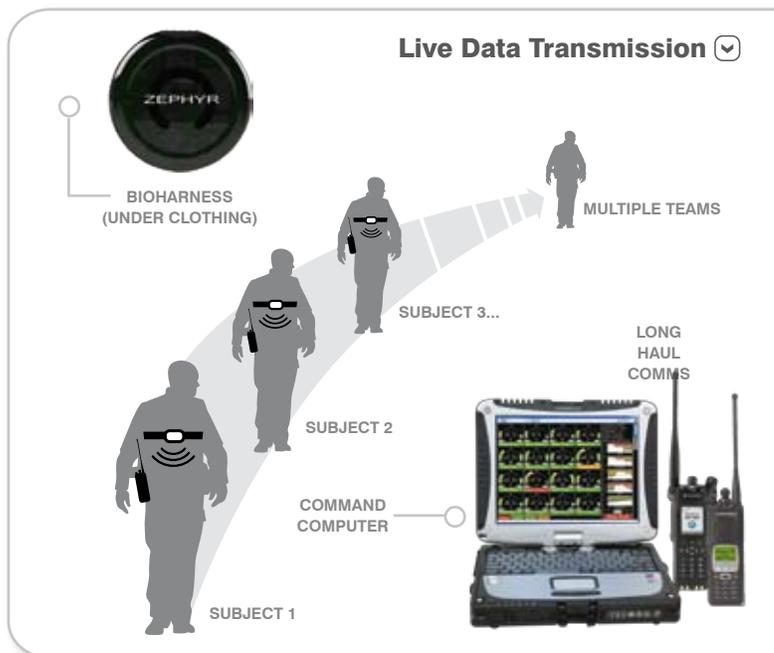
PSM Responder summarizes and delivers meaningful, actionable, concise data in a Red/Orange/Green display to Incident Commanders and Safety Officers. The system deploys over existing voice radio systems minimizing weight and cost of deployment. Real time PSM can improve the length of deployment and subsequent effectiveness of survey / insertion teams. BioHarness sensors are compatible with a range of training and fitness applications from Zephyr and third party developers.



XTS RADIO INTERFACE DEVICE (RID)

ZEPHYR BIOHARNESS™





## PSM Responder Solution Components

- The System is made up of 3 parts; BioHarness sensor, existing radio and OmniSense PC Application software.
- **BioHarness**  
The BioHarness is an easily donned “smart fabric” strap or shirt that calculates ROG status and measures heart rate, breathing rate, skin temperature, activity and posture. The wireless design does not impede the activities of the wearer, is comfortable over long periods and is washable. Options include blood oximetry, blood pressure sensors and PSM enabled garments.
- **Radio**  
The system is compatible with the existing digital voice radios of major manufacturers. This means it works over your existing deployed communications infrastructure saving weight on the responder, reducing hassle and encumbrance. Simple and cost effective to install, it is easily configured for rapid deployment.
- **OmniSense Application Software**  
The OmniSense software has three main modes:
  - **LIVE MODE** to show PSM status of up to 64 people simultaneously. Easily visible BioGauge along with trend graphs to assist medical staff. ROG status allows the incident commander to make quick decisions.
  - **CONFIG MODE** to add people and their personal statistics to the system and add / allocate hardware.
  - **ANALYSIS MODE** allows post incident analysis of the subjects physiological load. Post-event analysis allows commanders and safety officers to train effectively and hence make better decisions in future incidents. Reports provide for ‘duty-of-care’ compliance.

## Radio Communications

Current solutions for Motorola XTS 2500 & 5000, APX 6000 & 7000 (future)

Works in conventional environments

Voice and Data use the same radio, with voice priority

## PSM Responder

Optimizes real-time decision making in the field

Clear, intuitive software improves situational awareness

Uses existing radio systems

Low weight, low hassle, easily deployable

Applicable for training and live deployment

Dry contact sensors are comfortable for long term use

AVAILABLE SPO<sup>2</sup> AND BLOOD PRESSURE ACCESSORIES



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