

Zephyr™ PSM Responder & Defense



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 determine whether personnel are fatigued, dehydrated, injured or healthy.

PSM Responder & Defense Applications

Designed for teams of people deployed in harsh environments, the PSM Responder & Defense systems enable remote monitoring of multiple personnel simultaneously. The PSM Responder & Defense systems are for both training and live deployment situations for HAZMAT, CBRN, EOD, firefighters and any other team that deploys into extreme situations.

PSM Responder & Defense Advantages

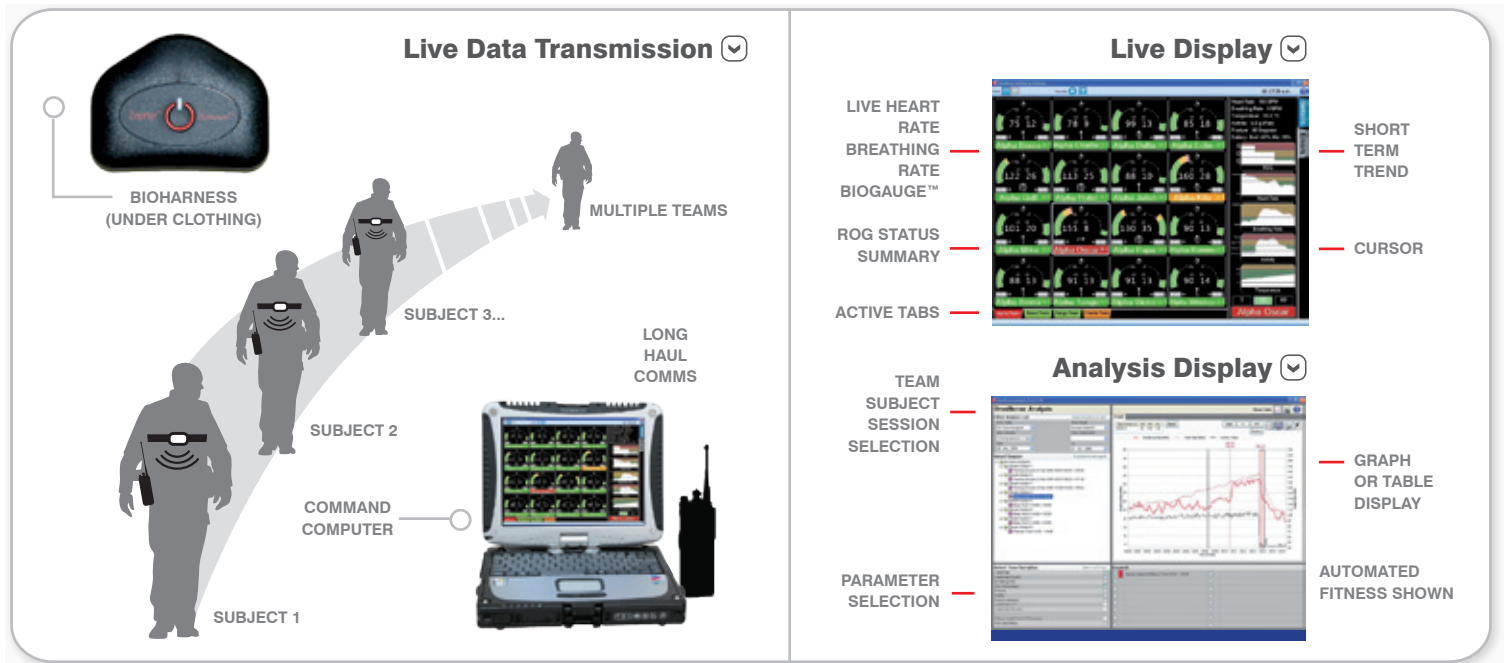
PSM Responder & Defense systems summarize and deliver meaningful, actionable, concise data in a Red/Orange/Green display to Incident Commanders and Safety Officers. The systems deploy over existing voice radios minimizing weight and cost of deployment. Real time PSM can improve the length of deployment and subsequent effectiveness of survey/insertion teams. Real time PSM can assist commanders and medics in C2 and combat casualty care decisions that can affect the outcome of a mission.



ZEPHYR PSM RESPONDER SHIRT™



ZEPHYR BIOHARNESS™



PSM Responder Solution Components

➤ The System is made up of 3 parts; BioHarness sensor, 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 shoulder straps to ensure proper positioning or PSM enabled shirt.

➤ 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 functions:

- **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 condition. Post-event analysis allows commanders and safety officers to train effectively and hence better decisions in future incidents.

Radio Communications

Solutions for PRC 148, JEMS, PRC 152, APCO 25 and TETRA civilian radios

Secure Bluetooth Radio Interface Devices (RID) supplied

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

Sensors can be added to any uniform

Dry contact sensors are comfortable for long term use

CONTACT US FOR DETAILS ON:

- Other Sensors
- New integrated shirts
- Radio, mic/speaker cable options

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