

# Personal Safety Monitor PSM Hero 825

One hand-held multi functioning device  
monitoring worker safety in real time.



# Connected worker safety monitored 24/7, anywhere.

The PSM Hero 825 is the first safety monitor that combines real-time data streaming, real-time communication, early gas detection and resilient location sensing into one hand-held device. The wearable personal safety monitor is the ultimate safeguard against multiple risks, to ensure workers are protected regardless of job, industry or working conditions. With configurable features and functions to suit all operational needs, the most advanced personal safety device is on the market for any organisation.

## Features and Benefits



### REAL-TIME DATA STREAMING

Real time data streaming & analytics allowing proactive decision making from facility controllers, preventing an incident occurring in the field



### WIRELESS GAS DETECTION

- Carbon Monoxide (CO)
- Oxygen (O<sub>2</sub>)
- Hydrogen Sulphide (H<sub>2</sub>S)
- Explosive (LEL) gases



### REAL TIME COMMUNICATION

- Live voice calls & text messages (Cellular)
- Push-to-talk & text messages (Mesh)



### LOCATION-SENSING

Find a worker's location indoor, outdoor and underground



### SLIPS, TRIPS & FALLS

Recognise fall from height and man down events



### BIOMETRIC MONITORING

Worker's biometric status allowing fitness for task monitoring through Bluetooth connected devices





Industry first  
connected safety  
technology  
that keeps your  
workers safe.

## Want More?

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Additional highlights:

- **Full integration with the Universal Data Interface, a smart alert and navigation system** to ensure complete worker oversight and reporting
- **Network communication integration** between satellite (Iridium) and local network systems to allow constant communication and data flow
- **Instant messaging** for communicating to multiple devices simultaneously from a single operator
- **Geofencing alerts** to both the safety manager and the field worker
- **Safe-area configuration changes and Firmware updates** that times itself appropriately
- **Customisable configuration** to suit operational needs and compliance standards
- **Multi-language** enabled

The PSM 825 collects live data that enables proactive decision making for the prevention of arising emergencies.

In an emergency, the live data allows the control room operator to take decisive actions leading to saving lives.



# PSM Hero 825 Specifications

Instrument Type	Multi-sensor gas detector, communications device, location sensing			
Dimensions	H151mm x W85mm x D41mm			
Weight	408g			
Gas Sensors Available	CO, O <sub>2</sub> , H <sub>2</sub> S, LEL			
Sensor Type	Electrochemical toxic gas sensor or Galvanic Oxygen sensor			
Alarms	Warning, Danger, TWA (if enabled) and STEL (if enabled)			
Audible Alarm	Loud two-tone alarm, 90db at 30cm			
Vibrating Alarm	Vibrating motor at 0.8G Amplitude			
Visual Alarm	High visibility flashing red alarm LEDs			
Controls	Three button operations			
Clip	Custom belt clip			
Heartrate	Via Bluetooth pairing (optional accessory)			
Bluetooth	Bluetooth V4 BLE Up to 100m connectivity. Search and pairing functions			
Battery	3.7V 23.4 Wh intrinsically safe battery Operating Time 12-20 hours*			
Sensor Temperature	Calibrated temperature recording			
Humidity	15% to 90% relative humidity (non-condensing)			
Microelectromechanical (MEMS)	3D Magnetometer, 3D Gyroscope, Digital Compass			
Cellular Connectivity		APAC (Telstra/Nit- Docomo)	EMEA	North America (Public safety, AT&T, FirstNet, T-Mobile, Verizon + Canada)
	4G bands (MHz)	B1, B3, B5, B8, B9, B18 (B26), B19, B28	B1, B3, B7, B8, B20, B28A	B12, B14, B4, B2, B5, B13, B66, B71
	3G bands (MHz)	B1, B5, B6, B19, B8	B1, B3, B8	B2, B4, B5
	2G bands (MHz)		B3, B8	
Mesh Network	Mesh Modem (2.4Ghz) for data transmission (via gateway)  Location derivation (inside or underground)			
Location	GPS, GLONASS, BeiDou, QZSS			
Display	Monochrome LCD 128x64 pixels with backlight			
Readouts	Continuous real-time gas readings, peak, STEL (if enabled), TWA (if enabled) and time of day readings			
Storage	On-board permanent storage for settings and sensor data caching  External Database Storage; Remote database collector of sensor data and location viewable by remote operator from customised webpage			
Enclosure	Compact and rugged, clear polycarbonate with grey over mould  Durability (IP Rating) Water and Dust Rating IP64			
Accessories	Calibration adapter, docking station, operator's guide and quick reference guide			
Operating Temperature	-20 to +60			
Warranty	24-month warranty against factory defects			



# About Us

Universal Site Monitoring design and develop Australian Made advanced connected worker safety monitoring solutions.

We believe in pushing the boundaries for connected safety solution possibilities, ensuring every work environment is a safer place.

Creating a safer work environment for people all around the world is at the heart of what we do. With a dedicated team of experts based in Australia, we are perfectly situated to service resources, oil & gas and industrial sectors, domestically and in the global market.

We are here to make  
sure your most important  
assets return home  
everyday.



## Universal Site Monitoring

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## General Enquiries

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# Creating a safer work environment

Breakthrough patented\* technology  
that saves lives

USM have developed a world first integrated system of wearable personal safety monitoring devices, communications hubs, reporting, and management software, plus ancillary products for the oil & gas, metals processing, manufacturing, mining and chemicals sectors.

The system includes:

- Personal Safety Monitor PSM Hero 825 standard
- Personal Safety Monitor PSM Hero 715 Intrinsically Safe  
ATEX/IECEx certified
- Universal Data Interface smart alert & navigation system
- Auto Bump Calibration Dock
- Mesh Access Point to enable data to be transmitted wirelessly  
in areas where communication is impossible or unreliable,  
including satellite
- Global Asset Monitor Android & iOS Applications



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\* US and Intl. Patents