



## QUESTemp° II Monitor

### PERSONAL HEAT STRESS MONITOR

#### *Typical Applications*

- Military Training Facilities
- Commercial and Naval Ships and Submarines
- Athletic Training and Events Facilities
- Manufacturing Plants
- Commercial Bakeries
- Power Generation Plants
- Warehousing and Distribution Centers
- Shipbuilding Operations



#### *QUESTemp° II*

- Belt Worn Personal Monitor
- Audio Alert
- Temperature Sensor
- IP54 Water and Dust Resistance Rating
- Summary and Detailed Time History Data
- Real Time Clock

#### *The Issue*

Area Heat Stress monitors don't recognize that physiological responses to heat stress can vary widely from person to person. More physically fit workers may tolerate heat better than less physically fit workers. Workers acclimatized to the environment may tolerate heat better than those unacclimatized to the hot environment or work load. Persons taking prescription or over-the-counter drugs may also be less tolerant of heat than when they are not taking these drugs.

#### *The Solution*

Quest Technologies' Personal Heat Stress Monitor provides an additional level of protection by directly detecting the individual's physiological response. Core temperature of the external auditory canal near the tympanic membrane of the ear is the vital sign monitored and recorded to verify an individual's response to heat stress. User-selected alarm trip points provide an audio alert to worker's experiencing elevated core temperatures. This device was created to work in conjunction with a well-managed heat stress safety program. Recorded data may also be used to evaluate worker response to heat stress loads and assist in developing preventive measures.

## Product Features and Specifications

<p><b>Mechanical Design:</b>          Belt-Worn Personal Monitor          IP54 Water &amp; Dust Resistance Rating          Case Size (Aluminum)          5.1x2.5x1"          64x130x25 mm          Weight          10 oz (283 g)</p> <p><b>Sensors:</b>          Thermistor Temperature Sensor</p> <p><b>User Interface:</b>          Liquid Crystal Display          English Display Messages          Large Keypad</p>	<p><b>User Programmable Parameters:</b>          °C or °F Temperature Scale          Time &amp; Date Clock          10 sec. Datalogging Intervals</p> <p><b>Measurement Data:</b>          Temperature          32° to 40° C          (90° to 104°F)          Temperature Accuracies          +/- 0.1°C (0.2°F)          Real Time Clock          Overall Summary Data          Detailed Time History Data</p>	<p><b>Outputs:</b>          Display          RS232 Serial Printer/Computer Interface          Audio Alert</p> <p><b>Power Options:</b>          9V Alkaline Battery (60 Hrs.)</p> <p><b>Data Management:</b>          QuestSuite Professional</p> <p><b>Independently Certified Standards:</b>          Intrinsic Safety          UL/CSA Standards for Class I, Groups C &amp; D; Class II Groups E, F &amp; G; Class III Temperature Code T3C          Electromagnetic Conformance          CE Mark</p>
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## Ordering Information

<b>QUESTemp° II DATALOGGING</b>	
<b>QUESTemp° II</b>	QUESTemp° II Single-Unit Kit - Includes control module, cable to ear sensor, thermoplastic earmold w/ speaker assembly, 10 replacement E.A.R. expandable foam earplugs, 53-287 Digital Oral Thermometer, 53-288 Digital Oral Thermometer Sheaths (box of 100), 58-867 serial RS-232 computer cable, 56-906 storage case and user manual.
<b>5QT-II</b>	QUESTemp° II 5-Unit Field Kit - (5) QUESTemp° II Monitors w/50 E.A.R. plugs, (1) 53-287 Digital Oral Thermometer, 53-288 Digital Oral Thermometer Sheaths (box of 100), (1) 58-867 serial RS-232 computer cable, 56-904 carrying case and user manual.
<b>10QT-II</b>	QUESTemp° II 10-Unit Field Kit - (10) QUESTemp° II Monitors w/100 E.A.R. plugs, (1) 53-287 Digital Oral Thermometer, 53-288 Digital Oral Thermometer Sheaths (box of 100), (1) 58-867 serial RS-232 computer cable, 56-905 carrying case and user manual.
<b>QUESTemp° II ACCESSORIES</b>	
<b>53-287</b>	Digital Oral Thermometer
<b>53-288</b>	Digital Oral Thermometer Sheaths (box of 100)
<b>E.A.R. INSERTS</b>	Replacement E.A.R. expandable foam ear inserts - for temperature sensor insertion - Package of 50
<b>58-453</b>	Replacement earloops - Package of 10
<b>58-867</b>	QUESTemp° II Serial RS-232 Computer Cable
<b>58-847</b>	QUESTemp° II Serial RS-232 Printer Cable
<b>56-904</b>	Water Resistant Carrying Case - Holds up to 6 QUESTemp° II units
<b>56-905</b>	Water Resistant Carrying Case - Holds up to 10 QUESTemp° II units
<b>053-810</b>	RS-232 Serial to USB Adapter for PC with USB Port only



### The System Solution

QuestSuite Professional provides industrial hygiene and safety professionals with a system solution for recording, reporting, charting and analyzing exposures to a multitude of occupational and environmental hazards. No longer do you have to switch between multiple software applications for reporting purposes.



### WORLDWIDE HEADQUARTERS

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