



The QUESTemp° III

The QUESTemp° III is a datalogging Personal Heat Stress Monitor. Based on extensive research funded by the Electric Power Research Institute and performed by Westinghouse Electric and Pennsylvania State University, it monitors both body temperature and heart rate to calculate individual body strain in response to heat stress.

It uses a two-stage audio/visual alarm. The first stage "Warning Alert" indicates that conditions are approaching a level where there is a limited amount of time to work. The second stage "Action Alert" indicates that the worker should stop work immediately and take necessary actions.

The watertight lightweight monitor assembly can be slipped into a shirt pocket or clipped to a belt while the elastic sensor belt assembly is worn comfortably around the chest. It is programmable for the appropriate age group and clothing type of the individual being monitored.

Heart rate, temperature, and heat strain alert status are recorded once every minute and stamped with the date and time to correlate events and pinpoint problems.

Output recorded data directly to a serial printer or download to QuestSuite Professional software, "The System Solution" for storage, retrieval, analysis, reporting, and charting of all your heat stress monitoring data.

QUESTemp III Technical Specifications

Input:

- Solid-State IC Temperature Sensor
- EKG Type Heart Rate Sensor

Measurement Ranges:

- Temperature: 33 to 40°C (91.4 to 104oF)
- Heart Rate: 40 to 220 BPM

Accuracies:

- Temperature: +/- 0.1°C (0.2°F)

Parameters:

- Celsius and Fahrenheit Scales
- Language: English
- Includes Time and Date Stamp
- Datalogging Interval fixed at 1 Minute

Output:

- RS-232 Serial Computer/Printer Interface

Independently Certified Standards:

- Intrinsic Safety:
UL/CSA Standards for Class i, Groups A, B,C & D; Groups E, F & G; Class. Temperature Code T3.
- Electromagnetic Conformance:
CE Mark

Power:

- Disposable Batteries 1604A 9V

Case Size (Aluminum):

- 3.0 x 1.0 x 5.0" (7.6 x 2.5 x 12.6 cm)

Weight:

- 14 oz (0.4 kg)
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