

NEW
PRODUCT

Enhanced Thermal Environment Monitor

QUESTemp[®] 36 - WBGT

Quest Technologies introduces the QUESTemp[®]36 Enhanced Thermal Environment Monitor. Based on the same platform as the QUESTemp[®]34 Datalogging Thermal Environment Monitor, the QUESTemp[®]36 (QT-36) adds two significant features.

The screening criteria for heat stress exposure as defined in the ACGIH TLV Handbook, U.S. Navy PHEL charts and EPRI action times are incorporated into the firmware of the QT-36. This enables the QT-36 to directly display and record work/rest regimens and eliminates the need to manually look up data in a chart or table.

An optional, detachable air probe for measuring air velocity extends the applications for the QT-36 beyond traditional heat stress measurements. The QT-36 can effectively be used as an indoor thermal comfort monitor using the air velocity probe, temperature and RH sensor readings simultaneously. Other applications include the verification of air flow in fume hoods or rooms normally requiring a minimum amount of air flow to be safe for occupancy.

All other key features present in the QT-34 are found in the QT-36, including datalogging, integral RH sensor, covered wet bulb sensor, shielded dry bulb sensor, rechargeable battery option, removable sensor array, multiple language support, and optional head, torso and foot measurements.



BENEFITS

- **Computes Heat Index**
Contains integral RH sensor and calculates relative humidity and Heat Index or Humidex
- **Computes Stay Times**
Automatically determines, displays and records stay times or work/rest regimens based on ACGIH, Navy PHEL charts and EPRI action times
- **Simplified Operation**
4-button keypad controls all operations and programming
- **User Selectable Languages**
English, Spanish, French, Italian, and German.
- **Remote Sensor Capability**
With a removable sensor array you can perform remote studies from up to 200 feet.
- **Air Flow Option**
Optional detachable air probe provides air velocity measurements
- **Extended Sample Time**
Twice the time of previous technology due to larger, covered water reservoir.
- **Supported by QuestSuite[®] for Windows software**

SPECIFICATIONS

Approvals:

ETL, cETL (certified to meet UL913 and CSA-E79-11-95 standards): Class I, II, III Groups A,B,C,D,E,F,G, Temperature code T3
DEMKO: EEx ia IIc T3
CE mark

Measurements:

Globe, drybulb, wetbulb, WBGT_{in}, WBGT_{out}, WBGT weighted average (with 3 sensor sets), relative humidity, and Heat Index or Humidex

Size:

9.2" x 7.2" x 3.0" (23.5 x 18.3 x 7.5mm), including sensor array

Weight:

2.6 lbs. (1.2 kg.) with sensor array mounted

Sensor Types:

Temperature: 1000 ohm platinum RTD
Humidity: Integrated circuit with capacitive polymer sensor

Accuracy:

Temperature: +/-0.5°C (0.9°F) between 0°C and +100°C (32°F to 212°F)
Relative Humidity: +/-5%

Operating Temperature Range:

Sensor Assembly: -5°C to +100°C (23°F to 212°F)
Electronics: -5°C to +60°C (23°F to 140°F)

Memory:

128K for datalogging at user selectable intervals of 1, 2, 5, 10, 30 and 60 minutes

Operating Relative Humidity Range:

0 to 100%* (extended exposure to humidity > 90% can cause a reversible shift of 3%)
*non-submersible

Power Options:

9V Alkaline - 150 hrs.
Rechargeable NiMH - 300 hrs.
Line power adapter - Continuous

Data Output:

RS-232 serial, 9600 baud
Parallel

Air Probe Specifications:

Range: 0-20 m/s
Accuracy: +/- 5%
Battery: 3.6V NiMH rechargeable, typical 8-10 hrs. life

NOTE: The approvals are for the QUESTemp[®]36 ONLY and not the air probe.



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98-456
Rev. A
11/00