QUESTEMP HEAT STRESS MONITORS



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Simplify your heat stress management with the intuitive QUESTemp Series Heat Stress Monitors[™]. These monitors measure parameters including temperature and relative humidity, and compute the Wet Bulb Globe Temperature (WBGT).

Features and Benefits

- + Utilizes WBGT sensing technology; the standard for heat stress management
- + Proven traditional wet bulb sensing technology available on QUESTemp models 32, 34 and 36
- + Waterless wet bulb QUESTemp models 44, 66, 48N eliminate daily maintenance
- + Convenient stay time parameters per multiple standards help determine work-rest ratios
- + IP 54 ingress rating helps protect unit from exposure to dirt, dust, oil and water
- + Designed to withstand the rigors of everyday use in demanding environments



MARKET LEADING TECHNOLOGY

QUESTEMP[°] MODELS 32/34/36 With traditional wet bulb sensor

Data Logging

- + QUESTemp° models 34/36 store data for future download and analysis
- + Compatible with Quest detection Management Software DMS
- + Analysis of data is crucial in developing a heat stress management program



Traditional Wet Bulb

- + Proven technology utilizes traditional wet bulb to calculate WBGT
- + Equipped with wet bulb, dry bulb, globe and relative humidity sensors
- + Provides a solid basis for determining if heat stress controls are needed

Stay Times

- + QUESTemp° 36 displays stay times per ACGIH TLV, U.S. Navy PHEL charts, and U.S. Navy/Marine Corp. Ashore Flag Conditions; includes EPRI action limits
- + Choose from various stay time standards to help determine workrest ratios

Detection Management Software

Designed for dosimetry, sound level measurements, heat stress assessments and environmental monitoring, this advanced software helps safety and occupational professionals:

- + Configure instrumentation and save pre-configured setups
- + Retrieve, download, share, and save instrument data
- + Create charts, tables, and reports to intuitively interpret your measurements
- + Export and share recorded results

The software integrates with TSI Quest Detection Solutions data logging instruments and will help you improve both operating efficiency and reporting in acoustics, heat stress and environmental monitoring.



CHOOSE THE MODEL THAT BEST MEETS YOUR NEEDS

QUESTEMP[°] MODELS 44/46/48N With waterless wet bulb sensor

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Data Logging

- + QUESTemp° models 44/46/48N store data for future download and analysis
- + Compatible with Quest Detection Management Software DMS
- + Analysis of data is a critical step in developing a heat stress management program

Brilliant Waterless Wet Bulb

+ Uses a proprietary algorithm to calculate the WBGT; eliminates daily wet bulb maintenance

Stay Times

- + QUESTemp° models 46/48N display stay times per ACGIH TLV, U.S. Navy PHEL charts, and U.S. Navy/ Marine Corp. Ashore Flag Conditions; QUESTemp° 46 includes EPRI action limits
- + Choose from various stay time standards to help determine workrest ratios

SENSOR SPECIFICATIONS

| | Natural Wet Bulb Models | | | Waterless Wet Bulb Models | | |
|--|-------------------------|-------|-------|------------------------------|-------|--------|
| | QT°32 | QT°34 | QT°36 | QT°44 | QT°46 | QT°48N |
| Dry bulb sensor - 1000 Ohm platinum RTD Accuracy and ranges: +/-0.5° C from 0° C to 120° C (+/-0.9° F from 32° F to 248° F) | + | + | + | + | + | + |
| Wet bulb sensor - 1000 Ohm platinum RTD Accuracy and ranges: +/-0.5° C from 0° C to 120° C (+/-0.9° F from 32° F to 248° F) | + | + | + | | | |
| Waterless Wet Bulb (Humidity) sensor Accuracy and ranges: +/-1.1° C (k=2) between 0° C and 80° C (32° F and 176° F) | | | | + | + | + |
| Globe sensor - 1000 Ohm platinum RTD Accuracy and ranges: +/-0.5° C from 0° C to 120° C (+/-0.9° F from 32° F to 248° F) | + | + | + | + | + | + |
| Relative humidity sensor Accuracy and ranges: +/-5% from 20 to 95% (non-condensing) | + | + | + | + | + | + |
| Air Velocity Probe - Omni-directional heated thermistor Accuracy and ranges: +/-(0.1 m/s + 4%) from 0 to 20 m/s | | | 0 | | 0 | |

Key: + Feature or Parameter of Unit o Optional

SPECIFICATIONS

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| | Natural Wet Bulb Models | | | Waterless Wet Bulb Models | | |
|--|-------------------------|-------|-------|---------------------------|-------|--------|
| | QT°32 | QT°34 | QT°36 | QT°44 | QT°46 | QT°48N |
| Measurement Parameters | | | | | | |
| Dry bulb, wet bulb and globe temperatures, relative humidity | + | + | + | + | + | + |
| Air velocity | | | 0 | | 0 | |
| WBGT (indoor) index | + | + | + | + | + | |
| WBGT (outdoor) index | + | + | + | + | + | + |
| Heat index / HUMIDEX | + | + | + | + | + | |
| Temperature reading: Celsius or Fahrenheit | + | + | + | + | + | + |
| Data logging intervals: 1, 2, 5, 10, 15, 30 or 60 minutes | | + | + | + | + | + |
| Event logging mode | | | | | | + |
| Display languages: Choose from Chinese, Czech, English, French, German, Italian, Japanese, Korean, Norwegian, Polish, Portuguese, Russian, Spanish, Swedish, and Turkish | | | + | | + | + |
| Head-Torso-Ankle Weighted Average WBGT (optional with tri-sensors) | 0 | 0 | 0 | 0 | 0 | |
| 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) | + | + | + | + | + | + |
| Data Management | | | | | | |
| Detection Management Software DMS | + | + | + | + | + | + |
| Thermal comfort indices in accordance with ISO 7730 Predicted Mean Vote (PMV) and Predicted Percent Dissatisfied (PPD) | | | 0 | | 0 | |
| Output | | | | | | |
| RS-232 serial printer / computer interface; Parallel printer interface | | | | | | |
| Power Source (All include AC power adapter wall power cube) | | | | | | |
| 9V disposable batteries; hours of battery life: | 140 | 140 | 140 | 80 | 80 | 80 |
| NiMH rechargeable battery; hours of battery life: | 300 | 300 | 300 | 160 | 160 | 160 |
| Mechanical | | | | | | |
| D-ring with lanyard attachment. Allows for hands-free monitoring | | | | | | + |
| Tripod mount / remote sensor bar. Allows for up to 61 m (~200 ft) long distance measurement | + | + | + | + | + | + |
| IP54 water & dust ingress protection rating | + | + | + | + | + | + |
| Case size (including mounted sensor assembly) 23.4 x 18.3 x 7.6 cm (9.2" x 7.2" x 3") | + | + | + | + | + | + |
| Weight: 1.2 kg (2.6 lb) with mounted sensor assembly | + | + | + | + | + | + |
| CE Mark | + | + | + | + | + | + |

Key: + Feature or Parameter of Unit o Optional

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