



# QUESTemp<sup>o</sup> Heat Stress Monitors



**Simplify your heat stress management with the intuitive QUESTemp<sup>o</sup> Series Heat Stress Monitors.**

These monitors measure parameters including temperature and relative humidity, and compute the Wet Bulb Globe Temperature (WBGT).

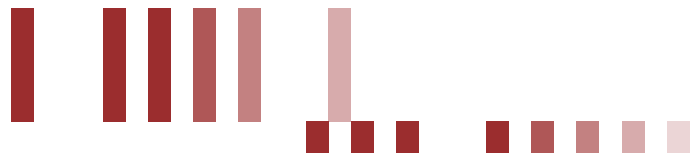
### Features and Benefits

- Utilizes WBGT sensing technology; the standard for heat stress management
- Proven traditional wet bulb sensing technology available on QUESTemp<sup>o</sup> models 32, 34 and 36
- Waterless wet bulb QUESTemp<sup>o</sup> models 44, 46, 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

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# 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

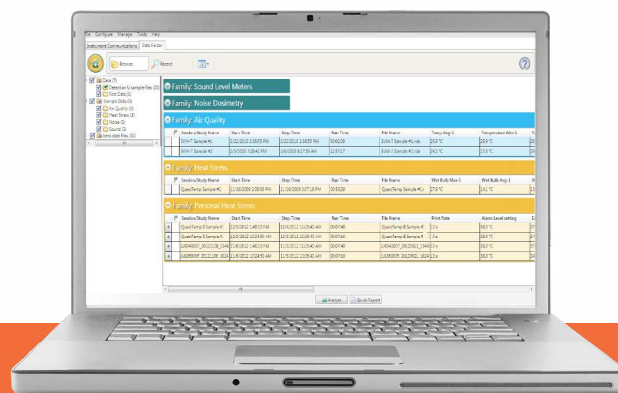
- QUESTemp® 36 displays stay times per ACGIH TLV, U.S. Navy PHEL charts, and U.S. Navy/Marine Corp. Ashore Flag Conditions; includes EPRI action limits
- Choose from various stay time standards to help determine work-rest ratios

### 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

### 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 work-rest 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)	▪	▪	▪	▪	▪	▪

Key: ▪ Feature or Parameter of Unit  
▫ Optional

## Specifications

# QUESTemp° Heat Stress Monitors

	Natural Wet Bulb Models			Waterless Wet Bulb Models		
	QT°32	QT°34	QT°36	QT°44	QT°46	QT°48N
<b>Measurement Parameters</b>						
Dry bulb, wet bulb and globe temperatures, relative humidity	▪	▪	▪	▪	▪	▪
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 English, French, German, Italian, and Spanish	▪	▪	▪	▪	▪	▪
Head-Torso-Ankle Weighted Average WBGT (optional with tri-sensors)	◻	◻	◻	◻	◻	
<b>Operating Temperature Range</b>						
Sensor assembly: -5° C to 100° C (23° F to 212° F)	▪	▪	▪	▪	▪	▪
Electronics: -5° C to 60° C (23° F to 140° F)	▪	▪	▪	▪	▪	▪
<b>Data Management</b>						
Detection Management Software DMS		▪	▪	▪	▪	▪
<b>Output</b>						
RS-232 serial printer / computer interface; Parallel printer interface						
<b>Power Source (All include AC power adapter wall power cube)</b>						
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
<b>Mechanical</b>						
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	▪	▪	▪	▪	▪	▪
<b>CE Mark</b>						
	▪	▪	▪	▪	▪	▪

Key: ▪ Feature or Parameter of Unit  
◻ Optional

Specifications are subject to change without notice.

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