

# Quest Technologies QUESTemp 32 Specs

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## Specifications For QUESTemp° 32, 34, 36, 44, 46, 48N

### Measurement Parameters:

	Natural Wet Bulb Models	Waterless Wet Bulb Models				
	QT°32	QT°34	QT°36	QT°44	QT°46	QT°48N
Dry bulb, wet bulb and globe temperatures; relative humidity	•	•	•	•	•	•
Air velocity			○			○
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			•			•
Time & date stamping with clock and calendar			•			•
Displayed stay times: ACGIH TLV, U.S. Navy PHEL charts, U.S. Navy/Marine Corp. Ashore Flag Conditions, EPRI action limits (QT°48N excludes EPRI)			•			•
Head-To-toe-Ankle Weighted Average WBGT (optional with tri-sensors)	○	○	○	○	○	○

### Sensors:

Dry bulb sensor - 1000 Ohm platinum RTD	•	•	•	•	•	•
Accuracy and ranges: +/-0.5 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 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 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						

### 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)			○			○

### 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	•	•	•	•	•	•

### Standards / Approvals:

Intrinsic Safety, UL/CSA standards for Class I groups A, B, C & D.	•	•	•	•	•	•
Class II groups E, F & G; Class III temperature code T3 & ATEx						
Electromagnetic conformance: CE Mark	•	•	•	•	•	•

Key: • Feature or Parameter of Unit ○ Option

All Specifications Subject to Change

For QUESTemp° II specifications, please visit [www.3M.com/detection](http://www.3M.com/detection).



### Personal Safety Division

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