

## 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-Torso-Ankle Weighted Average WBGT (optional with tri-sensors)	○	○	○	○	○	
<b>Sensors:</b>						
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						
<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	•	•	•	•	•	•
Thermal comfort indices in accordance with ISO 7730						
Predicted Mean Vote (PMV) and Predicted Percent Dissatisfied (PPD)			○		○	
<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>Standards / Approvals:</b>						
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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