

## IH Equipment

The listed equipment gives the industrial hygienist the basic functions to run an Industrial Hygiene program. This is not a complete listing of our industrial hygiene laboratory's equipment and total capability. If you are an Army employee and wish to receive information on any of our equipment please email:

[USAPHC-IHEquipmentRequest@amedd.army.mil](mailto:USAPHC-IHEquipmentRequest@amedd.army.mil)



QUEST TEMP 34 THERMAL ENVIRONMENTAL MONITOR

**Description:** The QUEST® TEMP 34 data logging area heat stress monitor measures four parameters: ambient or dry bulb temperature (DB), natural wet bulb temperature (WB), globe temperature (G), and RH. It computes the Wet Bulb Temperature (WBGT) and the Heat Index (HI) or the Canadian Humidex. Using inputs on the side of the instruments, two additional sensor arrays can monitor up to three locations simultaneously.

### Specifications:

Measurements: Globe, dry bulb, WBGT<sub>in</sub>, WBGT<sub>out</sub>, WBGT weighted average (if three sensor set), RH, and Heat Index/Humidex.

Temperature: Given in Celsius or Fahrenheit

Data Logging: Records and prints all measurements at user selected interval of 1,2,5,10,15,30, or 60 minutes

Weight: 2.6 pounds with mounted sensor assembly

Accuracy: Temperature  $\pm 0.5$  °C between 0 °C and 100 °C, RH:  $\pm 5\%$

Operational Temperature Range: Sensor Assembly -5 °C to 100 °C

Operating RH Range: 0-100% (extended exposure to humidity >90% can cause a reversible shift of 3%)

Power Options: 9V alkaline, 7.2V NiMH rechargeable pack (charged in the unit), or AC adapter wall power cube (AC adapter will operate the unit or recharge the NiMH battery pack)

Battery Life: 9V Alkaline 140 Hours, Rechargeable Nickel Metal Hydride: 300 Hours

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