

HSDL300 - Heat Stress/WBGT (Wet Bulb Globe Temperature) Datalogger

Monitor and Datalog Environmental Heat Stress Conditions to Limit Heat-related Health Risks and Improve Performance

The HSDL300 is designed to monitor and record environmental heat stress conditions to help protect workers, athletes, and personnel operating in hot environments. By simultaneously measuring and displaying Wet Bulb Globe Temperature (WBGT), Air Temperature, Globe Temperature, and Relative Humidity, the HSDL300 provides a comprehensive assessment of heat-related risk both indoors and outdoors. Its built-in datalogging capability stores up to 12,000 readings with user-selectable sampling intervals, allowing for long-term heat stress monitoring and regulatory compliance documentation. Programmable visual and audible WBGT alarms alert users when hazardous conditions arise, while Min/Max recording and USB data transfer simplify analysis and reporting. With indoor/outdoor measurement modes and a tripod mount for unattended monitoring, the HSDL300 is an ideal solution for occupational safety, athletic training, industrial hygiene, and environmental monitoring applications.

Key Features:

- Simultaneously displays WBGT, Relative Humidity, and Air or Globe Temperature
- Stores up to 12,000 readings for each parameter (Air Temperature, Relative Humidity, WBGT, and Globe Temperature)
- User-programmable sampling intervals of 1, 5, 10, 30, 60, 90, or 120 minutes
- Programmable audible and visual WBGT alarm from 68 to 122°F (20 to 50°C)
- Indoor/Outdoor mode switch measures WBGT with or without the effects of direct sunlight
- Min/Max recording function
- USB interface for transferring stored data to a PC in CSV format
- Tripod mount (1/4-20" UNC) supports hands-free operation for extended monitoring periods (tripod not included)
- Traceable Calibration Assurance: Optional model includes a Certificate of Traceability to N.I.S.T.



Applications:

- Monitoring heat stress in outdoor athletic training and competitions
- Construction sites and industrial job sites
- Foundries, glass plants, and boiler rooms
- Brick firing facilities and mining operations
- Any environment where excessive heat poses a safety risk

Users:

- Safety managers and EHS professionals
- Athletic trainers and sports event organizers
- Industrial hygienists and facilities engineers
- Military and emergency services personnel
- HVAC technicians and environmental consultants

Specifications

Function	Range
Air Temperature	32 to 122°F (0 to 50°C)
Accuracy	±1.8°F/0.6°C
Relative Humidity	0.1 to 99.9%RH
Accuracy	±3%RH (10 to 90%RH)



Events and worksites where heat stress levels should be monitored for health safety risks

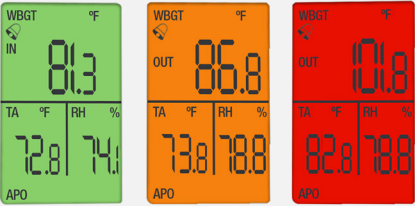
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Specifications (continued)

Function	Range
Globe Temperature	32 to 176°F (0 to 80°C)
WBGT Temperature	32 to 122°F (0 to 50°C)
WBGT Alarm Range	68 to 122°F (20 to 50°C)
Sampling Rate	0 , 5, 10, 30, 45, 60, 90, 120 mins
Start Delay Time	0 , 5, 30, 45, 60, 90, 120 mins
Resolution	0.1°, 0.1% RH
Memory	12,000 readings (CSV format)
Power	4 × AAA batteries
Battery Life	~192hrs
Black Ball Diameter	3" (75mm)
Dimensions	12 × 3 × 1.5" (302 × 75 × 37mm)
Weight	10.6oz (300g)

Ordering Information

HSDL300Heat Stres/WBGT (Wet Bulb Globe Temperature) Datalogger
HSDL300-NISTHeat Stres/WBGT Datalogger with Certificate Traceable to NIST



WBGT Readings with Backlit Display Alert

- No Backlit Display: <80.0°F (26.7°C)
- Green Backlit Display: ≥80.0°F (26.7°C)
- Yellow Backlit Display: ≥84.9°F (29.4°C)
- Red Backlit Display: ≥87.8°F (31.0°C)
- Red Backlit Display Flashing: ≥90.0°F (32.2°C)



What's In the Box

- HSDL300
- Mini USB cable
- 4 × AAA batteries
- User manual

For more information about
HSDL300, please scan or click:



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