



### TECHNICAL DATA

#### Specifications

##### Temperature

Measuring Ranges:

Air: 32 to 122.0°F (0 to 50.0°C)  
 Black Globe: 32 to 176°F (0 to 80°C)  
 WBGT: 32 to 122°F (0 to 50°C)  
 Air Temperature: ±1.1°F (±0.6°C)  
 Black Globe (Indoor): 59 to 104°F  
 (15 to 40°C): ±1.8°F (1°C)  
 Rest of Range: ±2.7°F (1.5°C)  
 Black Globe (Outdoor): 59 to 104°F  
 (15 to 40°C): ±3.6°F (2°C)  
 Rest of Range: ±2.7°F (1.5°C)  
 0.1°F/°C

Accuracy:

Resolution:

##### Humidity

Measuring Range:

0 to 100% RH  
 10% to 90% RH: ±3%  
 Rest of Range: ±5%  
 0.1% RH

Accuracy:

Resolution:

##### General Specifications

Response Time:

1 sec

Display:

LCD

Auto Shut-off:

Yes (after 10 mins/off)

User Adjustable

WBGT Alarm:

Yes (audible)

Tripod Mountable:

Yes

Low Battery Indicator:

Yes

Power Supply:

2 AAA Batteries

Battery Life:

Approx. 1000 hours (Alkaline)

Product Certifications:

CE

Operating Temp.:

0 to 122°F (0 to 50°C)

Storage Temp.:

14 to 140°F (-10 to 60°C)

Operating Humidity:

0 to 95%

Dimensions:

Instrument: 10 x 1.9 x 1.1"  
 (254 x 49 x 30 mm)  
 Black Brass Ball Diameter:  
 2.9" (75 mm)  
 4.8oz (136g)

Weight:

#### Features

- Heat Stress Index measures how hot it feels when humidity is combined with temperature, air movement and radiant heat
- Black Globe Temperature (TG) monitors the effects of direct solar radiation on an exposed surface
- In/Out function displays the WBGT value with or without direct sun exposure
- User selectable unit of measure (°F or °C)
- Large, easy-to-read LCD display
- User adjustable threshold alarm (audible)
- Tripod mount for long-term monitoring
- Low battery indicator and auto shut off
- Includes batteries

Model	Description
8778	Heat Stress WBGT Meter
HR33	Humidity Calibration Standard, 33%
HR75	Humidity Calibration Standard, 75%
R1500	Lightweight Tripod
8778-NIST	Heat Stress WBGT Meter & NIST