

TECHNICAL DATA

Features

- Measures ambient temperature, humidity, wet bulb temperature, black globe temperature, WBGT (wet bulb global temperature), heat stress index, dew point and pressure
- Heat Stress Index measures how hot it feels when humidity is combined with temperature, air movement and radiant heat
- Black Globe Temperature (GT) monitors the effects of direct solar radiation on an exposed surface
- In/Out function displays the WBGT value with or without direct sun exposure
- Multi-line backlit LCD display simultaneously displays 4 measurements
- Maximum, Minimum, Average and Data Hold functions
- Internal memory stores up to 99 measurements
- User selectable unit of measure (°F or °C)
- User adjustable WBGT threshold alarm (audible)
- Tripod mount for long-term monitoring
- Low battery indicator and auto shut off
- Includes batteries

Specifications

Temperature

Measuring Ranges: Air Temperature: 32 to 122°F (0 to 50°C)
Black Globe: 32 to 176°F (0 to 80°C)
WBGT (Indoor):
59 to 138.2°F (15 to 59°C)
WBGT (Outdoor):
59 to 132.8°F (15 to 56°C)Ω

Accuracy: Air Temperature: ±1.1°F (±0.6°C)
Black Globe: ±0.6°C (20~50°C), other ±1°C
WBGT (Indoor): ±2.7°F (±1.5°C)
WBGT (Outdoor): ±3.6°F (±2°C)
0.1°F/°C

Resolution: 0.1°F/°C

Humidity

Measuring Ranges: 0 to 99.9% RH
Accuracy (@ 25°C): 10% to 70% RH: ±3%
Rest of Range: ±5%
Resolution: 0.1% RH



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Barometric Pressure

Measuring Range: 300-1100 hPa (inHg, mmHg switchable)
 Accuracy: ± 1.5 hPa
 Resolution: 1 hPa, 0.1 inHg, 0.1 mmHg

General Specifications

Dew Point/Wet Bulb Calculation: Yes
 Response Time: 1 sec
 Display: LCD
 Backlight: Yes (non-condensing)
 Data Hold: Yes
 Min: Yes
 Max: Yes
 Average: Yes
 Internal Memory: Yes, up to 99 measurements
 Auto Shut-Off: Yes (after 15 mins/off)

User Adjustable

WBGT Alarm: Yes (audible)
 Tripod Mountable: Yes
 Low Battery Indicator: Yes
 Power Supply: 4 x AAA Batteries, Optional AC Adapter
 Product Certifications: CE, RoHS
 Operating Temp.: 32 to 122°F (0 to 50°C)
 Operating Humidity: <80% (non-condensing)
 Storage Temp.: -4 to 122°F (-20 to 50°C)
 Storage Humidity: <90% (non-condensing)
 Dimensions: Instrument: 6.4 x 2.3 x 1.3"
 (162 x 58 x 32 mm)
 Black Brass Ball Diameter: 2.0" (50 mm)
 Weight: 4.8oz (136g)



Model	Description
R6200	WBGT Heat Stress Meter
R9933	Humidity Calibration Standard, 33%
R9975	Humidity Calibration Standard, 75%
R9980	Humidity Calibration Kit (33% and 75%)
R1500	Lightweight Tripod with Instrument Adapter
CA-05A	Soft Carrying Case, 10 x 4.3 x 1.7"
R6200-NIST	WBGT Heat Stress Meter & NIST