

TECHNICAL DATA

Features

- Measures temperature, humidity, dew point, wet bulb, black globe, indoor/outdoor WBGT
- Wet Bulb Globe Temperature (WBGT) considers the effects of temperature, humidity and direct or radiant sunlight
- In/Out function displays the WBGT value with or without direct sun exposure
- Black Globe Temperature (TG) monitors the effects of direct solar radiation on an exposed surface
- Adjustable audible alarm
- User selectable unit of measure (°F or °C)
- Data hold and Max/Min functions
- Real-time datalogger with integrated SD memory card
- User selectable sampling rate from 1 to 3600 seconds
- Easy-to-read backlit LCD display
- Tripod mount for long-term monitoring
- Low battery indicator and auto shut off
- Includes soft carrying case & batteries

Specifications

Temperature

Measuring Ranges:

- Air: 32 to 122.0°F (0 to 50.0°C)
- Dew Point: -13.5 to 120.1°F (-25.3 to 48.9°C)
- Wet Bulb: -6.9 to 122.0°F (-21.6 to 50°C)
- Black Globe: 32 to 176°F (0 to 80°C)
- Indoor WBGT: 32 to 138°F (0 to 59°C)
- Outdoor WBGT: 32 to 132°F (0 to 56°C)

Accuracy:

- Air: ±1.5°F (±0.8°C)
- Black Globe: ±1.1°F (±0.6°C)
- Indoor WBGT: ±2.7°F (±1.5°C)
- Outdoor WBGT: ±3.6°F (±2°C)

Resolution: 0.1°F/°C

Humidity

Measuring Range: 5 to 95% RH

Accuracy:

- >70% RH: ±(3% rdg + 1% RH)
- <70% RH: ±3% RH

Resolution: 0.1% RH



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General Specifications

Indoor Formula:	0.7WB + 0.3TG
Indoor Range:	32 to 138°F (0 to 59°C)
Indoor Accuracy:	±2.7°F (±1.5°C)
Outdoor Formula:	0.7WB + 0.3TG + 0.1TA
Outdoor Range:	32 to 132°F (0 to 56°C)
Outdoor Accuracy:	±3.6°F (±2°C)
Response Time:	1 second
Display:	4-digit dual LCD
Backlit Display:	Yes
Data Hold:	Yes
Min:	Yes
Max:	Yes
Datalogging Capabilities:	Yes
Real-Time Clock and Date Stamp:	Yes
Selectable Sampling Rate:	Yes (1, 2, 5, 10, 30, 60, 120, 300, 600, 1800, 3600 seconds)
External Memory:	Yes, expandable up to 16GB with SD card (optional)
Auto Shut-off:	Yes (after 10 minutes/off)
Kick Stand:	Yes
Tripod Mountable:	Yes
Low Battery Indicator:	Yes
Power Supply:	6 x AA batteries or AC Adapter (optional)
Data Output:	Yes (RS-232)
Product Certifications:	CE
Operating Temperature:	32 to 122°F (0 to 50°C)
Storage Temperature:	14 to 140°F (-10 to 60°C)
Operating Humidity Range:	10 to 85%
Dimensions:	Instrument: 7.0 x 2.7 x 1.8" (177 x 68 x 45 mm) Black Brass Ball Diameter: 2.9" (75mm)
Weight:	1.1lb (515g)



Model	Description
R6250SD	Data Logging Heat Stress Meter
R1500	Tripod
RSD-ADP-NA	Power Supply, 110V
RSD-ADP-EU	Power Supply, 220V
CA-05A	Soft Carrying Case
R8888	Hard Carrying Case
SD-4GB	4GB Class 4 SDHC Memory Card
RSD-16GB	16GB Micro SD memory Card w/Adapter
R6250SD-NIST	Data Logging Heat Stress Meter with NIST