

### 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:  $\pm 1.5^{\circ}\text{F}$  ( $\pm 0.8^{\circ}\text{C}$ )
- Black Globe:  $\pm 1.1^{\circ}\text{F}$  ( $\pm 0.6^{\circ}\text{C}$ )
- Indoor WBGT:  $\pm 2.7^{\circ}\text{F}$  ( $\pm 1.5^{\circ}\text{C}$ )
- Outdoor WBGT:  $\pm 3.6^{\circ}\text{F}$  ( $\pm 2^{\circ}\text{C}$ )

Resolution: 0.1°F/°C

##### Humidity

Measuring Range: 5 to 95% RH

Accuracy:

- >70% RH:  $\pm(3\% \text{ rdg} + 1\% \text{ RH})$
- <70% RH:  $\pm 3\% \text{ RH}$

Resolution: 0.1% RH



*Continued...*

### TECHNICAL DATA

#### 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 + 0.2TG + 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 45mm) Black Brass Ball Diameter: 2.9" (75mm)
Weight:	1.1lb (515g)

#### R6250SD-KIT

Data Logging Heat Stress Meter with Power Adapter and SD Card

Includes:  
R6250SD Data Logging Heat Stress Meter, RSD-16GB 16GB Micro SD Memory Card with adapter and RSD-ADP-NA AC Power Adapter



#### R6250SD-KIT2

Data Logging Heat Stress Meter with Tripod, SD Card and Power Adapter

Includes:  
R6250SD Data Logging Heat Stress Meter, R1500 Tripod, RSD-16GB 16GB Micro SD Memory Card with adapter and RSD-ADP-NA AC Power Adapter



#### R6250SD-KIT3

Data Logging Heat Stress Meter with Tripod Kit

Includes:  
R6250SD Data Logging Heat Stress Meter, RSD-16GB 16GB Micro SD Memory Card with adapter, R1500 Tripod and 2590-8024REED Water Bottle



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
RSD-16GB	16GB Micro SD memory Card w/Adapter
R6250SD-KIT	Data Logging Heat Stress Meter with Power Adapter and SD Card
R6250SD-KIT2	Data Logging Heat Stress Meter with Tripod, SD Card and Power Adapter
R6250SD-KIT3	Data Logging Heat Stress Meter with Tripod Kit
R6250SD-NIST	Data Logging Heat Stress Meter with NIST