

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 integral SD memory card
- User selectable sampling rate from 1 to 3600 seconds
- Large, easy-to-read backlit LCD display
- Optional PC software features live tracking via USB connection
- Tripod mount for long-term monitoring
- Low battery indicator and auto shut off
- Includes carrying case and batteries



TECHNICAL DATA



Specifications

Temperature

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 122.1°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: ±1.8°F (±1°C)
Outdoor WBGT: ±2.7°F (±1.5°C)

Resolution: 0.1°F/°C

Humidity

Range: 5 to 95%RH
Accuracy: >70%RH: ±(3% rdg + 1%RH)
<70%RH: ±3%RH

Resolution: 0.1%RH

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TECHNICAL DATA

General Specifications

Response Time:	1 sec
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, 3600s)
External Memory:	Yes, expandable up to 16Gb with SD card (optional)
Auto Shut-off:	Yes (after 10 mins/off)
Kick Stand:	Yes
Tripod Mountable:	Yes
Low Battery Indicator:	Yes
Power Supply:	6 x AA batteries or AC Adapter (optional)
Output:	Yes
PC Connectivity:	USB Cable (optional)
Software:	SW-U801-WIN (optional)
Software OS Compatibility:	Windows XP/Vista/7
Product Certifications:	CE
Operating Temperature:	0 to 122°F (0 to 50°C)
Storage Temperature:	14 to 140°F (-10 to 60°C)
Operating Humidity:	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)



Model	Description
SD-2010	Heat Stress Meter/Datalogger
SD-4GB	4GB SD Memory Card
SW-U801-WIN	Data Acquisition Software
USB-01	USB Cable
RSD-ADP-NA	AC Adapter, 110V
R1500	Tripod
R8888	Hard Carrying Case
SD-2010-NIST	Heat Stress Meter/Datalogger & NIST