WBGT (in/out door), TG Temp., Humidity/Air Temp.
Dew point Temp. Wet bulb Temp.
SD Card, real time data logger, Patent

HEAT INDEX WBGT METER

Model: WBGT-2010SD

ISO-9001, CE, IEC1010

WBGT-2010SD

Soft carrying case CA-05B. included

The Art of Measurement
**SD Card Data Logger**

**HEAT INDEX WBGT METER**

**Model: WBGT-2010SD**

### FEATURES

**Introduction:**
WBGT (wet-bulb globe temperature) was developed as a monitoring basis at US military training camps and became widespread for the use in workplaces and sports situations. It is suggested in the international standard ISO 7243, OSHA (US Occupational Safety), Japan Society for Occupational Health and the SMA (Sports Medicine Australia) as establishing the permissible heat exposure limits in health, sports or other physical activities.

**Measurement:** WBGT value | Indoor/Outdoor | Wet bulb globe temperature | Black globe temperature | Humidity

**Datalogger:**
- Auto sampling time can be set to 1 second, and the buzzer will sound along with the flashing display.
- Manual data logger button.
- LCD with green backlight (ON/OFF).

**Display:**
- LCD with green backlight (ON/OFF).

**System:**
- Microcomputer circuit, high accuracy.

**Globe temperature measurement:**
Use the PT sensor.

**Power by:**
- UM3/AA (1.5 V) x 6 batteries or DC 9V.

**RS232/USB PC COMPUTER interface:**
- USB cable, USB-01.

**Power by:**
- Alkaline or heavy-duty DC 1.5 V battery (UM3, AA) x 6 PCs, or equivalent.

**Data Output:**
- RS232/USB PC computer interface.
- Connect the optional RS232 cable.
- For data transfer.

**Data Output:**
- Approx. DC 5 mA.

**Accuracy:**
- ± 1% of reading.

**Accuracy:**
- ± (3% reading + 1% RH).

**Data Hold:**
- Memorize the maximum & minimum readings.

**Dew Point Temp:**
- Range: 25.3°F to 48.9°F.
- Resolution: 0.1°F.

**Dew Point Temp:**
- Range: 12.6°F to 50.0°F.
- Resolution: 0.1°F.

**Recommended:**
- Wet bulb temperature is calculated from the humidity/Air Temp. measurement automatically.
- The Dew Point Temp. accuracy is ± accuracy value of Humidity & Air Temperature measurement.

**Electrical Specifications:**
- For working and physical activity.
- (Permissible heat exposure threshold limit)

**Temperature (°C):**
- Indoor: 25 to 59°C.
- Outdoor: 25 to 59°C.
- Humidity: 30 to 95%.

**Temperature (°F):**
- Indoor: 77 to 132°F.
- Outdoor: 77 to 132°F.

**Recommended:**
- For working and physical activity.
- (Permissible heat exposure threshold limit)

**Temperature (°C):**
- Indoor: 25 to 59°C.
- Outdoor: 25 to 59°C.
- Humidity: 30 to 95%.

**Temperature (°F):**
- Indoor: 77 to 132°F.
- Outdoor: 77 to 132°F.

**Notes:**
- Manual mode, can also select the °C or °F.
- Manual and automatic sampling time can be set to 1 second.

**Specifications:**
- Black globe temperature (TG)
- Data display
- LED number: 11
- Battery: UM3/AA (1.5 V) x 6 batteries or DC 9V.

**Dimensions:**
- 177 x 68 x 45 mm.
- Weight: 489 g/1.08 LB.

**Accuracy:**
- ± 0.1°C.
- ± 0.1°F.

**Applications:**
- Agriculture
- Sports
- Industry
- Environmental

**Source:**
- ASHSH 1992 (The American Conference of Governmental Industrial Hygienists)

**Patent:**
- CHINA: ZL 2008 2 0189918.5, ZL 2008 2 0189917.0.
- TAIWAN: M 359070, M 359043.
- Germany: Nr. 20 2008 016 337.4.
- Japan: 315121 4.
- USA: Pending.

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- Japan: 315121 4.

**Additional:**
- Appearance and specifications listed in this brochure are subject to change without notice.

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*SD Card Data Logger*