

HEAT STROKE PREVENTION METER



Wearable WBGT & Heat Index Checker 87783/87784

- Simultaneously display WBGT, HI, temperature & RH
- For outdoor & indoor heat stress measuring
- Programmable buzzer and red LED danger zone warning
- Audible alarm volume adjustable (75dB / 60dB / mute)
- 4 level dangerous level indicator on LCD
- Wearable design with arm strap included
- Display updates every 20 seconds
- Functions
 - 87784: WBGT+HI 2 in 1
 - 87783: WBGT only



What is Heat Index?

Heat index (HI) is sometimes referred to as the "apparent temperature". The HI is a measure of how hot it feels when relative humidity (RH) is added to the actual air temperature.

What is WBGT?

The Wet Bulb Globe Temp. (WBGT) is a composite temperature used to estimate the effect of temperature, humidity, wind speed and solar radiation on humans. It is used by industrial hygienists, athletes, and the military to determine appropriate exposure levels to high temperatures.

WBGT & Physical exercise

| WBGT | Flag | Activity Intensity |
|--------------------------|--------|--|
| < 80°F < 26.7°C | White | Normal activity. Caution should be taken. |
| 80-84.9°F 26.7-29.4°C | Green | Discretion is required in planning intense physical activity. |
| 85-87.9°F 29.4-31°C | Yellow | Intense activity for new and acclimatized persons should be curtailed. |
| 88-89.9°F 31-32.2°C | Red | Intense exercise must be curtailed for those with less than 12 weeks training in hot weather. Be on high alert |
| > 90°F > 32.2°C | Black | Cancel all outdoor exercise. |

Source: Manual of Naval Preventive Medicine (NAVMEP P-5010)

| Model | 87783 | 87784 |
|---------------------------------|---|---------|
| Temp. range | 0~50°C | |
| Temp. resolution | 0.1°C/°F | |
| Temp. accuracy | +/-0.6°C | |
| Humidity. range | 0.1%~99.9%RH | |
| Humidity resolution | 0.1%RH | |
| Humidity accuracy | 10.0%~90.0% @ 25°C: Typical 5%. Others 7% | |
| Globe Temp. (inside black ball) | 0~70°C | |
| WBGT temp. range | 0~50°C | 0~50°C |
| HI temp. range | | 0~60°C |
| WBGT Alarm Range | 20~50°C | 20~50°C |
| HI Alarm Range | | 20~60°C |
| Black ball size(mm) | Dia. 40 | |
| Stabilization time | 15 ~25 minutes typical | |
| Battery life | ~300hour | |
| LCD size (mm) | 40(H)x39(W) | |
| Operation temp. | 0~50°C | |
| Operation RH% | Humidity < 80% | |
| Storage temp. | -20~50°C | |
| Storage RH% | Humidity < 90% | |
| Dimension(mm) | 70(H)x60(W)x22(T) | |
| Weight | ~90g | |
| Standard Package | AAA x2pcs | |
| Battery | Meter/Battery/Manual/Paper box | |

Ordering Code

VZ87783AZ, 87783 meter
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