# TM-288 HEAT STRESS WBGT Meter

As the Holy Infant, the temperature increasingly rises.

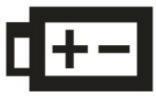
The chance of heatstroke increases dramatically in the moist heat environment.

This product, measuring in WBGT, provides real-time alarm immediately so as to

prevent heatstroke in such the environment.

## **Functions:**

- In compliance with JIS B 7922 Level 2
- Three applications: arm band, tripod, and hanging.
- High-sensitive capacitive humidity sensor and bandgap temperature sensor.
- Measure the WBGT, black-globe temp. (TG), Air temp. (TA), humidity (%RH).



- Low voltage indicator
- °C or °F selectable.
- With the plastic black-globe of the diameter Ø40mm.
- Three-stage WBGT alarm selectable:

| Unit               | Measuring<br>range | Alarm Default  | Alarm User<br>Flashing                                  |
|--------------------|--------------------|--|---|
| Caution            | >21~25°C           | mute   |   |
| Extreme<br>caution | >25~28°C           | Beep for 4 seconds   | As exceeding the<br>setting value,beep fo<br>15 seconds |
| Danger             | >28°C~31°<br>C     | Beep for 15 seconds  |   |
| Extreme<br>Danger  |                    | Beep for 3 second and pause for 2 seconds, repeat until 15 seconds |   |

- mute (buzzer not displayed), cyclic setting.
- Outdoor or indoor (default is OUT) measurement mode selectable.
- Sampling interval: per 20 seconds
- Operating wind speed: 0.3 m/s or above.
- Operation temperature and humidity: 0°C to +50°C,<80%RH (No condensation)</li>
- Storage temperature and humidity: 0°C to +60°C,<70%RH (No condensation)</li>

### Wet Bulb Globe Temperature (WBGT)

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| Unit | Measuring range | Resolution | tolerance range<br>15~40°C |
|------|-----------------|------------|----------------------------|
| °C   | 0~50.0          | 0.1        | ±2.0                       |
| °F   | 32.0~122.0      | 0.1        | ±3.6                       |

| *  |
|--|
| Indoor & outdoor without sunshine "IN" :WBGT =<br>(0.7×WET)+(0.3×TG) |
| Outdoor in<br>sunshine "OUT" :WBGT=(0.7×WET)+(0.2×TG)+(0.1×TA)       |

## Air temperature (TA)

| Unit | Measuring range | Resolution | Tolerance<br>@15~40°C |
|------|-----------------|------------|-----------------------|
| °C   | 0~50.0          | 0.1        | ±0.6                  |
| °F   | 32.0~122.0      | 0.1        | ±1.6                  |

## Black-globe temperature (TG)

| Unit | Measuring range | Resolution | Tolerance |
|------|-----------------|------------|-----------|
|      |                 |            | @15~40°C  |
| °C   | 0~80.0          | 0.1        | ±0.6      |
| °F   | 32.0~176.0      | 0.1        | ±1.1      |

## Humidity (%RH)

| Unit | Measuring range | Resolution | Tolerance |
|------|-----------------|------------|-----------|
|      |                 |            | @25°C     |
| %RH  | 30.0~90.0       | 0.1        | ±5.0%RH   |
| %RH  | <30.0 , >90.0   | 0.1        | ±7.0%RH   |