

Heat Stress WBGT Meter

TM-288

Features

- ◆ 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 battery indicator.
- ◆ Selectable units of °C or °F.
- ◆ With the plastic black-globe of the diameter Ø40mm.
- ◆ Three-stage WBGT alarm selectable: → → mute (buzzer not displayed), cyclic setting.
- ◆ Selectable outdoor or indoor measurement mode (default is OUT) .
- ◆ Sampling interval: per 20 seconds.
- ◆ Dimension: 116 × 60 × 50mm(L × W × H).
- ◆ Weight: 80 g (excluding battery weight).
- ◆ Power: 3V CR2032 × 1.
- ◆ Battery life: about 500 hours (alarm not provided).
- ◆ Operating wind speed: 0.3 m/s or above.
- ◆ Operation temperature and humidity: 0°C to +50°C, <80%RH (No condensation).
- ◆ Storage temperature and humidity: 0°C to +60°C, <70%RH (No condensation).
- ◆ Display dimension: 41mm(W) x 38mm(L).



Thermal hazard prevention standards

Caution	Extreme caution	Danger	Extreme danger
>21~25°C	>25~28°C	>28~31°C	>31°C

Specifications

Wet Bulb Globe Temperature (WBGT)

Unit	Measuring range	Resolution	Tolerance @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" : $WBGT = (0.7 \times WET) + (0.3 \times TG)$
 Outdoor in sunshine "OUT" : $WBGT = (0.7 \times WET) + (0.2 \times TG) + (0.1 \times TA)$

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

Air Temperature (TA)

Unit	Measuring range	Resolution	Tolerance @15~40°C
°C	0~50.0	0.1	±0.6
°F	32.0~122.0	0.1	±1.1

Humidity (%RH) 0-100%

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