

# TM-188 TM-188D HEAT STRESS WBGT METER



- Quick-response capacitance sensor, accurate measurement for wet bulb globe temperature(WBGT), black globe temperature(TG), humidity(%RH), air temperature(TA), wet bulb(WET) and dew point(DEW).
- Max/Min and data hold.
- Low battery indication.
- LCD display with LED backlight.
- Viewing data records.
- Switch the temperature unit to °C or °F.
- Brass black ball in 50mm diameter.
- WBGT alarm setting.
- Auto power off with disable function.
- Data logging capacity: 12000 records, USB PC serial interface (TM-188D).
- Sampling interval: Max 24 hours; Min 1 Second (TM-188D).

**TM-188  
TM-188D (with datalogger)  
Specifications (23°C±5°C)**

**Wet bulb globe temperature (WBGT) :**

Unit		Range	Resolution	Accuracy @15~40°C
indoor & Outdoor without sunlight	°C	0~59.0	0.1	±1.0
	°F	32.0~ 138.0	0.1	±1.8
Outdoor With sunlight	°C	0~56.0	0.1	±1.5
	°F	32.0~ 132.0	0.1	±2.7
※indoor & outdoor without sunlight: $WBGT = (0.7 \times WET) + (0.3 \times TG)$ Outdoor with sunlight: $WBGT = (0.7 \times WET) + (0.2 \times TG) + (0.1 \times TA)$				

**Air temperature (TA):**

Unit	Range	Resolution	Accuracy @15~40°C
°C	0~50.0	0.1	±0.8
°F	32.0~122.0	0.1	±1.5

**Black globe temperature (TG):**

Unit	Range	Resolution	Accuracy @15~40°C
°C	0~80.0	0.1	±0.6
°F	32.0~176.0	0.1	±1.1

**Relative Humidity (%RH):**

Measurement Range	1%~99%
Accuracy	±3.0%RH(20~80%) ±5.0%RH(80%)
Resolution	0.1%

**Dew point temperature (DEW):**

Unit	Range	Resolution
°C	-35.3~48.9	0.1
°F	-31.5~120.1	0.1
The value is calculated from the RH and Air temperature.		

**Wet bulb temperature (WET):**

Unit	Range	Resolution
°C	-21.6~50.0	0.1
°F	-6.9~122.0	0.1
The value is calculated from the RH and air temperature.		

- Dimension : 300 x 70 x 50mm (L x W x H)
- Weight : 220g. (Without batteries).
- Power supply : 006P 9V,or AC100~240V DC 9V/ 0.5A(9mm).
- Battery life : 200 hours.
- Operating Temperature & Humidity :0°C to +50°C.
- Storage temperature & humidity : -10°C to +50°C .
- Data output :USB PC serial interface,12000 records. (TM-188D)
- LCD: 52mm(W)x36mm(L) monochrome LCD and backlight.
- Standard accessories: 006P 9V battery x1, User's manual x 1, Carrying x1,
- USB cable(TM-188D) x1, AC100~240V to DC9V/0.5A (9mm)x1 (TM-188D),  
Install CD disk(TM-188D) x1