

# HEAT STROKE PREVENTION METER



## Desktop WBGT Real Time Monitor 87797(w/logging) 87796(No logging)

- Simultaneously display/record WBGT, Temp. and RH
- Check dangerous heat conditions through WBGT index
- Long battery life (via alkaline battery)
  - no logging: one year
  - logging: one month (sampling rate:1min, 1G SD card)
- Programmable WBGT LED/Audible alarm threshold
- Programmable recording sampling rate (87797)
- SD card design for continuous recording (87797)



| Model                | 87797                                           | 87796                                       |
|----------------------|-------------------------------------------------|---------------------------------------------|
| Temp. range          | 0~50°C (Display: -10.0~70.0°C)                  |                                             |
| Temp. resolution     | 0.1°C/°F                                        |                                             |
| Temp. accuracy       | +/-1°C                                          |                                             |
| Humidity. range      | 0.1%~99.9%RH                                    | 20~90%RH<br>(Display:0%~99.9%RH)            |
| Humidity resolution  | 0.1%RH                                          |                                             |
| Humidity accuracy    | +/-3%RH (at 25°C, 10~90%RH, others +/-5%RH)     | +/-5%RH (at 25°C, 10~90%RH, others +/-7%RH) |
| WBGT temp. range     | 0~60.0°C                                        |                                             |
| SD card              | SD card or SDHC card<br>(NO MMC and SDXC cards) | N/A                                         |
| Sampling rate        | 1 to 720 mins. Default:10 mins                  | N/A                                         |
| Beeper (dB)          | ~65dB                                           |                                             |
| RH% Self calibration | YES, via salt chamber                           |                                             |
| Power consumption    | <0.4mA                                          | <0.11mA                                     |
| LCD size (mm)        | 63(H)x70(W)                                     |                                             |
| Operation temp.      | 0~50°C                                          |                                             |
| Operation RH%        | Humidity < 90%                                  |                                             |
| Storage temp.        | -10~50°C                                        |                                             |
| Storage RH%          | Humidity < 90%                                  |                                             |
| Dimension(mm)        | 110x91x30(H)                                    |                                             |
| Weight               | ~200g                                           |                                             |
| Power                | AA x3pcs or 5V adaptor                          | AA x3pcs                                    |
| Standard Package     | Meter/adaptor/Manual/Paper box/SD card          |                                             |

### 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<br>< 26.7°C       | White  | Normal activity. Caution should be taken.                                                                      |
| 80-84.9°F<br>26.7-29.4°C | Green  | Discretion is required in planning intense physical activity.                                                  |
| 85-87.9°F<br>29.4-31°C   | Yellow | Intense activity for new and acclimatized persons should be curtailed.                                         |
| 88-89.9°F<br>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<br>> 32.2°C       | Black  | Cancel all outdoor exercise.                                                                                   |

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

### Ordering Code

VZ87797AZ, 87797 logger  
VZ87796AZ, 87796 monitor

