WIRELESS REAL-TIME MONITORING

WBGT Heat Stress Monitoring System

A complete, solar-powered system that measures workplace heat stress in compliance with Ministry of Manpower (MOM) guidelines — showing live WBGT readings on site and warning your team the moment conditions become unsafe.

MOM COMPLIANT | 4G + GPS | SOLAR POWERED



ONE STANDARD PACKAGE

Everything included as standard

- WBGT Monitoring Unit
- Outdoor LED Display Panel
- LED + Strobe Warning Light

KEY APPLICATIONS

- Construction & Infrastructure
- Shipyards & Heavy Industry
- Road, Tunnel & MRT Worksites
- Outdoor & Confined Spaces
- Refineries & Power Plants
- Workplace Safety Compliance

CORE FEATURES

Continuous Monitoring

Records air temperature (Ta), globe temperature (Tg) and natural wet bulb (Tnwb) in real time to compute WBGT.

4G IoT & GPS

Reliable 4G wireless data transmission with built-in GPS tracking for precise site positioning.

Solar-Powered Autonomy

Integrated solar panel, charge controller and rechargeable battery for continuous off-grid operation.

Cloud Analytics Portal

Live readings, trend graphs and historical data logs, securely accessible from any PC or mobile device.

Instant Multi-Channel Alerts

Automated, unlimited email and Telegram notifications the moment WBGT exceeds safe thresholds.

Secure & Compliant

Role-based user access, complete data protection and downloadable reports for compliance records.

THE STANDARD PACKAGE

One complete system. Ready to deploy.

Every MWI WBGT system is supplied as a single turnkey package — on-site display, visual warning, solar power, 4G connectivity and cloud software all included as standard.

01 WBGT Monitoring Unit
MOM-compliant heat stress meter measuring Ta, Tg and Tnwb, housed in a weatherproof enclosure with security lock.

02 Outdoor LED Display Panel
High-visibility panel that shows the live WBGT reading to everyone working on site.

03 LED + Strobe Warning Light
Bright visual warning that activates when WBGT exceeds the configured safety threshold.

04 Solar Power & 4G Data Logger
Solar panel, rechargeable battery and charge controller, with a 4G IoT data logger and built-in GPS.

INCLUDED AS STANDARD

- ✓ 4G SIM subscription
- ✓ Web portal & dashboard
- ✓ GPS location configuration
- ✓ Email & Telegram alert setup
- ✓ Onsite installation
- ✓ User training
- ✓ Calibration certificate

No options. No add-ons.

HOW IT WORKS

1 Measure
Sensors record Ta, Tg and Tnwb continuously and calculate WBGT in real time.

2 Display
The outdoor LED panel shows the current WBGT reading to workers on site.

3 Warn
Above the threshold, the strobe light activates and email and Telegram alerts are sent.

4 Report
Live data, trend graphs and downloadable logs on the secure cloud portal.



MOM Compliance Guarantee

Designed specifically to meet Singapore's regulatory heat stress safety requirements.

Turnkey Field Support

End-to-end service, from site installation and training to ongoing technical support.

GET IN TOUCH

Request a quotation for your worksite

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