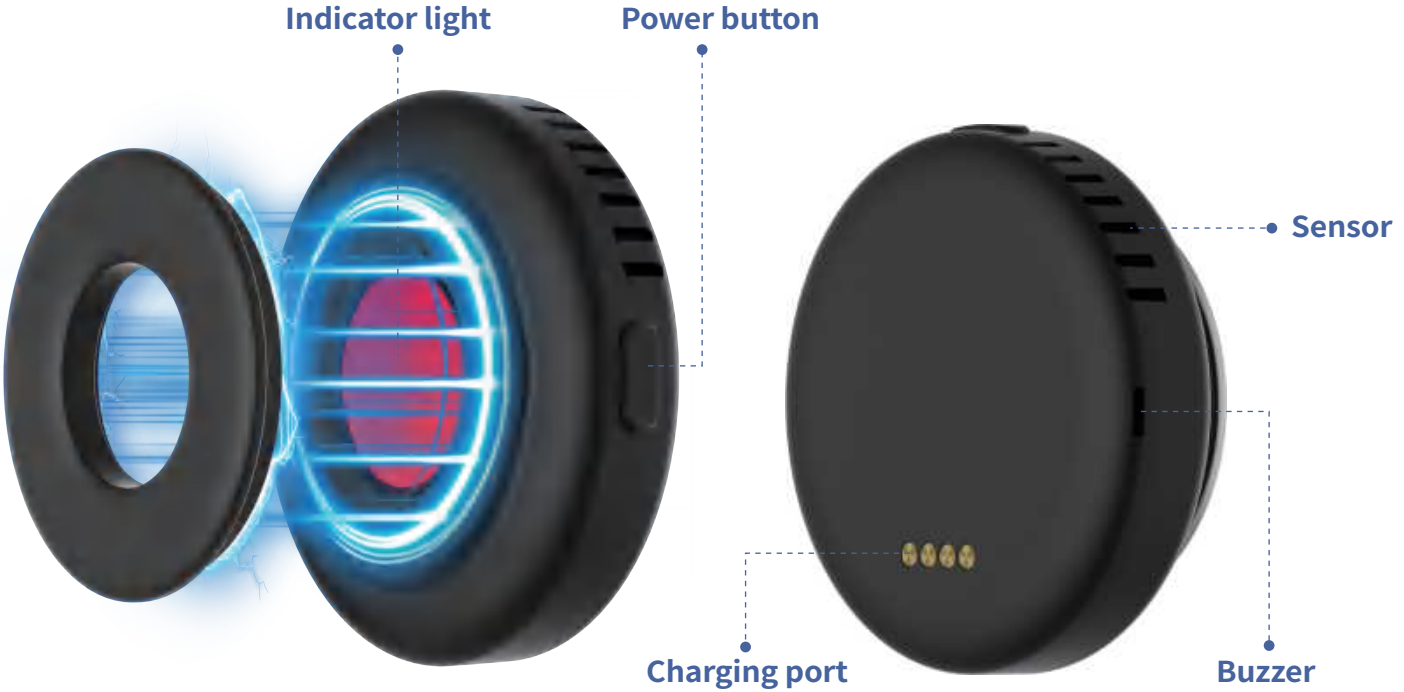


Protective Clothing Built-in Heat-Stroke Prevention Monitoring Module

The Protective Clothing Built-in Heat-Stroke Prevention Monitoring Module is a device for continuous internal heat-risk monitoring with graded alerts (LED, sound, vibration) inside protective clothing systems.

- Real-Time Microclimate Monitoring
- Designed for Protective Clothing Environments
- Long Battery Life
- No Backend System Required
- HSI-Based Heat Stress Risk Evaluation
- Multi-Mode Risk Alerts (Light, Sound & Vibration)
- IP67 Industrial Protection

CMZ-RF21



Product Specifications

Body size:	D46.9mm*T16mm
Material:	ABS & Magnet
Waterproof/dustproof:	IP67
Alarm volume:	~70dB (20cm test distance)
Battery:	Lithium polymer battery 180mAh (1 hour charge, 400 cycles)
Charging voltage:	5V
Working current:	3-30mA
Accessories:	USB charging cable
Number of sensors:	2 (temperature & humidity)
Sensor accuracy:	Temperature: $\pm 0.3^{\circ}\text{C}$; Humidity: $\pm 2\%\text{RH}$
Detection interval:	Periodic monitoring
ON/OFF function:	with switch
Working days:	Up to 30 days(fully charged, no alarms, normal usage)

*This product is not a medical device.
*Depending on usage, the battery may be exhausted quickly, so we recommend charging according to the remaining battery power.
*This does not correspond to all physical conditions.
*Regardless of whether there is an alarm, if you feel unwell, please take a break.
*When measuring skin temperature, please keep the sensor part on the back in close contact with the skin.
*Specifications, appearance, etc. may be changed without prior notice due to product improvements.

CMZ-RF21

Inside-PPE Heat Risk Monitor

Monitor temperature and humidity
inside protective clothing in real time.



Standby Mode

The device continuously monitors environmental conditions during normal operation. The green indicator shows the device is active.



Level 1 Alert

Elevated heat conditions detected. The blue indicator provides an early awareness alert.



Level 2 Alert

Increased heat-risk conditions detected. The yellow indicator and audible alert recommend preventive action.



Level 3 Alert

High heat-risk conditions detected. The red indicator, audible alarm, and vibration alert signal immediate attention.

Real-Time Monitoring. Multi-Level Alerts. Safer Work, Every Day.



Real-Time Monitoring

Continuously monitors temperature and humidity inside protective clothing.



Multi-Level Alerts

Visual, audible, and vibration alerts provide clear warnings at different risk levels.



Magnetic Installation

Strong magnetic attachment for quick and secure installation inside protective clothing.



IP67 Protection

Dust-tight and waterproof design for reliable performance in harsh conditions.



Long Battery Life

Up to 30 days of operation on a single charge (8 hours/day).



Make the Invisible Risk Visible.

RF21 helps protect workers in hot and humid environments where risks can't be seen.



Increase Productivity



Improve Safety



Reduce Incidents