

RTMU

Rail Temperature Monitoring Unit

The RTMU (Rail Temperature Monitoring Unit) is an advanced automatic temperature monitoring system that allows rail operators to remotely monitor track temperature with precision and efficiency. Designed for real-time tracking and continuous data logging, the RTMU helps mitigate rail expansion and contraction risks, ensuring greater operational safety and cost efficiency.



KEY FEATURES & BENEFITS



Track temperature monitoring (RTMU) for UK and European rail networks.



Fully compatible with Network Rail RADAR monitoring systems for seamless integration



Real-time detection and monitoring of rail temperature using highly accurate temperature sensors.



Helps prevent service failures and costly disruptions caused by extreme rail expansion or contraction



Continuous logging and real-time updates for proactive decision-making



Lightweight and easy to install - magnetic attachment enables quick deployment



Remote monitoring capability eliminates the need for frequent track-side inspections



User-friendly Yeltech online platform for remote access to real-time and historical data



Automatic alarm notifications via GSM/email, ensuring timely alerts on critical temperature changes



Customizable alarm thresholds, allowing tailored responses to varying temperature conditions



Low-power consumption, operating for up to 3 years on a single battery charge



Annual calibration and technical support available to maintain peak performance



HOW DOES IT WORK?

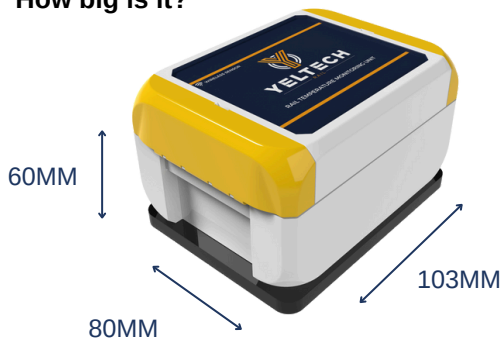


The RTMU is securely installed on the web of the rail using a high-strength magnetic plate. Once in place, the activation sensor is triggered, turning the device ON. The system continuously logs rail temperature and transmits data at specified intervals (to suit customer requirements), for example:

- Below 25°C: Data is stored every 15min and sent every 12 hours.
- Above 25°C: The RTMU transmits data every 15 minutes to notify of critical temperature changes.
- Alarm thresholds can be customised, ensuring timely interventions before safety limits are exceeded.

TECHNICAL SPECIFICATIONS

How big is it?



Parameter	Description
Power Source	Lithium battery (13Ah 3.6V), up to 3 years of continuous operation
Temperature Range	-20°C to +70°C
Communication	GSM/FTP/MQTT/NBLoT - GPS options available
Nonlinearity	< 0.6%
Size	103mm x 80mm x 60mm
Weight	0.7kg
Configuration	Settings adjustable via text message or web platform
Data Access	Secure online platform

HOW TO ORDER?

Call us and order over the phone or email a purchase order to sales@yeltech.com

GCT0090: RTMU MK3 GPS - 057/072140

SUPPORT & CALIBRATION

- **Annual health check & calibration** recommended to ensure continued accuracy.
- **Technical assistance & training** available for troubleshooting and operational training.

Ensure rail safety and operational efficiency with Yeltech's RTMU – a critical component of modern rail infrastructure monitoring.

