

# - Data Sheet -



## YEL Temp Rail Temperature Monitor



### What is it?

Yel<sup>Temp</sup> is an automatic temperature warning system which allows you to monitor the track temperature remotely, without going track-side. During periods of high temperatures, the rail can reach up to 20°C above the air temperature when in direct sunlight. When exposed to these temperatures, the rail expands and is subject to strong compression. This causes major performance and safety issues for rail operators, as the risk of derailment increases. The RTMU largely reduces the need for manual track-side monitoring, saving costs and improving safety.

### Key features & benefits;

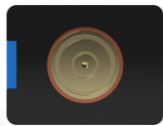
Accurate rail temperature data, allows you to identify when speed restrictions need to be put in place.



Low power battery, cable free, and completely mobile.



Super lightweight design with magnetic plate that can easily be fitted within seconds.



When the outlined alarm has been reached, an alarm will be sent to the desired recipient via text or email.



Easy access to Yeltech online server to view and measure data.



Readily available App to locate and measure all your RTM's on the go and get real-time data.



### How does it work?

The RTMU is installed at the web of the rail and is immediately secured with the high strength magnet. When the device makes contact with the surface, the activation sensor is triggered turning the device ON. When the device is removed from surface the same sensor is triggered to turn the device OFF.

The RTMU is programmed to transmit the data on specific instructions with an internal threshold of 25°C. The device will feature predetermined transmission rates. Normal rate is when the RTMU wakes up and sees the temp below 25 °C, it will store the data and then send the bulk of readings/data every 12 hours. Fast rate of the RTMU is when the temperature exceeds the threshold of 25 °C and the CRT alarm thresholds that have been set. When the RTMU wakes up, if the temp is above 25 °C, then it will keep transmitting data to the server every 30/60 minutes.

All data is accessible through the Yeltech App if specified or through webserver allowing you to easily identify your device and the temperature measurements.

Want to learn some more about our innovative products?

Tel: 0845 0523860

Email: [info@yeltech.com](mailto:info@yeltech.com)

Website: [www.yeltech.com](http://www.yeltech.com)

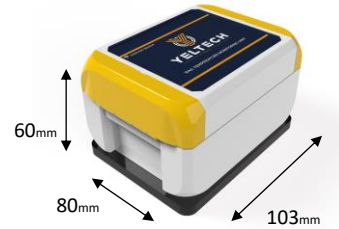
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### Technical Bit

- Lithium battery powered 13Ah 3.6V
- Up to 3 years continuous operation on one charge
- Readings/Alarms sent via GSM/email
- Compatible with Network Rail II system
- Configure settings via text message
- Operation Temperature -20 to +60 °C

### How big is it?



Weight 0.7kg

### How to Buy it

#### Network Rail Catalogue Numbers:

- GCT0090 Rail Temperature Monitor unit - RTMU MK3 GSM - 057/072140
- GCT0091 Rail Temperature Monitor unit - RTMU MK3 SIGFOX - 057/072141
- GCT0093 Rail Temperature Monitor unit - RTMU MK3 GPS - AVAILABLE FOR TRIAL

#### Call us and order over the phone

Contact No.

0845 0523860 or email a Purchase Order to [sales@yeltech.com](mailto:sales@yeltech.com)

### After you have bought it

#### Service & Calibration

Yeltech would recommend that the RTM is sent back for a health check and re-calibration each year.

#### Technical Assistance

Yeltech are available to provide assistance for the RTM be it problem solving or operational training. Yeltech are also available to visit your depot and carry out training for your employees.

### Other things you may want

#### Yeltech RTM Phone App

Access only your RTMs data, get alarms, location data and historic data right to your phone.



Price  
on  
Request

### Other Yeltech offerings

#### YEL Innovate

Deliver bespoke solutions to your problems

#### YEL Crack

Structural crack propagation measurement systems

#### YEL Tilt

Structural movement measurement systems

#### YEL Data

Autonomous RTU (Dataloggers)

#### YEL Weather

Weather stations

#### YEL Charge

Emergency warning board stand charger

#### YEL Battery

Battery monitoring device

#### YEL Warning

Emergency warning board

#### YEL Strain

Strain measurements systems in steel and concrete structures

#### YEL Water

Water level measurement systems

#### YEL Wall

Retaining wall horizontal shearing measurement systems

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Website: [www.yeltech.com](http://www.yeltech.com)