BANCE

RTMU11

RAIL TEMPERATURE MONITOR UNIT

A self contained, mobile, battery operated unit for the reporting of rail temperatures. Temperature readings are reported remotely by SMS text message or by email.

With internet based reporting and alarm handling solution and management information system.

The RTMU has a Network Rail Approved Vortok Clip built into the design. This enables the unit to be clipped to any rail in any position in a matter of seconds.

The unit is self contained and requires no additional batteries, cabling or base station.

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RTMU11 Specification:

Main benefits include:

- Notification by text messages or emails
- Completely mobile, self contained, battery operated
- Easy to program with simple text messages
- Internet based reporting and alarm handling solution and management information system

The RTMU provides for:

- Automatic temperature notification via text message or email.
- Completely mobile, self contained and battery operated.
- Easy to programme with simple text messages.

The Web Server provides for:

- Internet based reporting, alarm handling and information management.
- See the actual rail temperature, reports and trends from any computer / device with internet access.

System Features:

Rail Temperature – a PT100 sensor is fitted on top of the unit for a more accurate temperature reading. The RTMU is fully programmable via simple SMS and will send an alarm when the thresholds have been reached either via a text message and/or email.

Off-The-Line Sensor – the RTMU also incorporates a sensor to detect when the unit has been detached from the rail. The unit is self contained and requires no additional batteries, cabling or base station. It has a battery life of 6 – 24 months dependent upon the programme.

Web Server – the RTMU can communicate wirelessly using the GSM / GPRS to internet servers, where the data can be decoded and presented on the internet. The use of internet based data presentation techniques means that data can be viewed from any computer, anywhere, anytime.

Requirement for Set-Up

Data SIM Card – each RTMU requires a SIM card to communicate with the server.

Contact Details – of people who will be receiving the alarms. Mobile/ Cell phone numbers if alarms are to be sent via SMS and email addresses if alarms are to be sent via email.

Alarm Thresholds – temperature settings of critical rail temperatures (low and high temperatures).

RTMU Settings – identification of the unit, location of where the unit is to be installed etc.

Temperature Reading – the GSM Module is normally powered down (to preserve battery life) and the RTMU controls power to the sensors as required. The unit should be programmed to dictate the frequency of readings taken and for those reading to be logged into the server.