

Wireless RailStress Monitor™

The Wireless RailStress Monitor is the first completely self-contained battery-powered measurement device for determining rail stress and temperature. This system provides the user with rail break alerts and real-time warnings of potential buckle conditions. It can also help establish proper rail neutral temperature at the time of maintenance or repair.

After 25 years of research, Nagory Foster offers the next generation Rail Stress Monitor (RSM). When coupled with our new Rich Internet Application, IntelliTrack® Navigator, users can now manage large numbers of devices in the field. This is a breakthrough technology that serves as a data analysis and prediction tool, as well as a real-time alarm monitoring system.



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RSM

Benefits

- Rail Break Detection
- Potential Buckling Hazard Alerts
- Reducing Hot Weather Slow Order Requirements
- More Effective Rail Break/Defect Repair
- SFT Readjustment Management
- Monitoring of Longitudinal Forces in Rail Adjacent to Fixed Structures

Features

- Compact Design
- Self-Contained (No External Wiring)
- Simple Installation
- Wireless Data Transmission
- Monitors Rail Temperature and Stress
- Reports to IntelliTrack Navigator Database
- Up To 10-Year Battery Life
- Available as a Service

powered by

The IntelliTrack Technology logo, featuring a stylized yellow and orange arc above the text "intelliTrack" in a bold, lowercase sans-serif font, with "Technology" in a larger, lowercase sans-serif font below it.

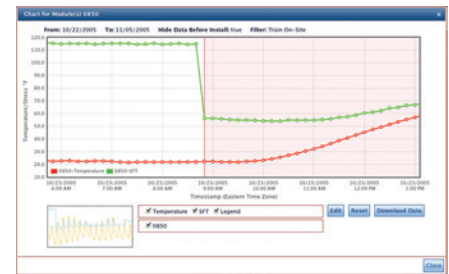
Specifications

RSM Module

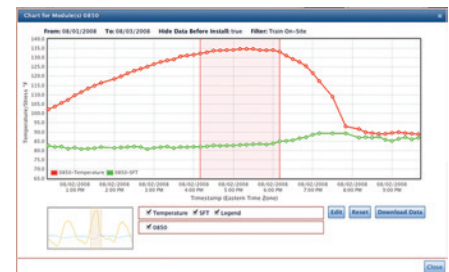
- Size – 34 cm x 6 cm x 4.5 cm (13.5 in x 2.4 in x 1.75 in)
- Weight – 1.6 kilograms (3.5 lbs.)
- Battery Life – Up To 10 Years
- Peak Power Consumption – ¼ watt
- Operating Temperature – -40 to 85°C (-40 to 185°F) Wireless

Communications Range

- RSM Handheld Reader
Up to 50 meters (150 feet)
- RSM Wayside Reader Concentrator
Up to 300 meters (600 feet)
- Operating Frequency – 2.400 to 2.4835 GHz
- Sensor Type – Welded Strain Gage
- Data Storage Capacity
6 Months of 10 Minute Intervals



Rail Break Alarm



Buckle Alarm



Map Hybrid

IntelliTrack® Navigator

IntelliTrack Navigator offers an intuitive, web-accessible user interface using modern browser technology. It provides proactive alerts of critical alarm conditions, dynamically updates module alarm status, and can easily locate the alarmed modules on the integrated, zoom-capable map.

IntelliTrack Navigator is hosted in a Tier 4 data center by Nagory Foster. Its cloud computing technology provides easy scalability without the need to buy new hardware or software. A complete user guide is available as an online help tool.

Data from user-selected modules can be displayed as a dynamic chart. The chart allows the user to specify the time range and the types of data that should be included. While viewing the chart, the user can easily turn off and on the visibility of one or more data types and can also zoom in on a particular time period.



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