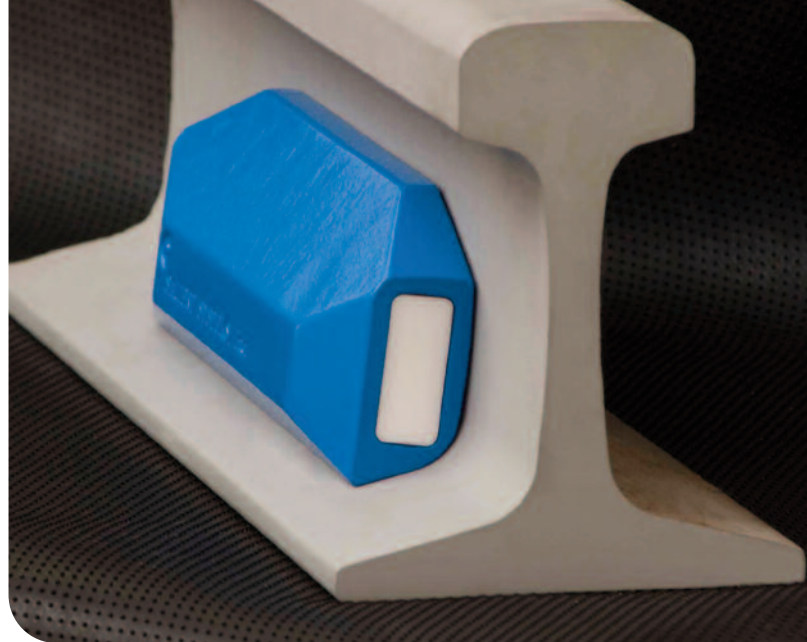


Wireless RailStress Module

Features

- Compact
- Self contained – no external wiring
- Simple installation
- Wireless data transmission
- Convenient installation during rail break repairs
- Monitors rail temperature and stress
- Reports to StressNet database
- Available as SmartJoint from Salient Systems & Portec Rail Products



Wireless RailStress Module

The Salient wireless RailStress Module is the first completely self-contained battery powered measurement device for determining rail stress and temperature. This information provides the user with a convenient method for determining the potential for both rail breaks and kinks, and for achieving proper neutral temperature at times of rail repair or installation.



Rail Stress Monitor Hand-held Interrogator™ retrieves stress and temperature data.

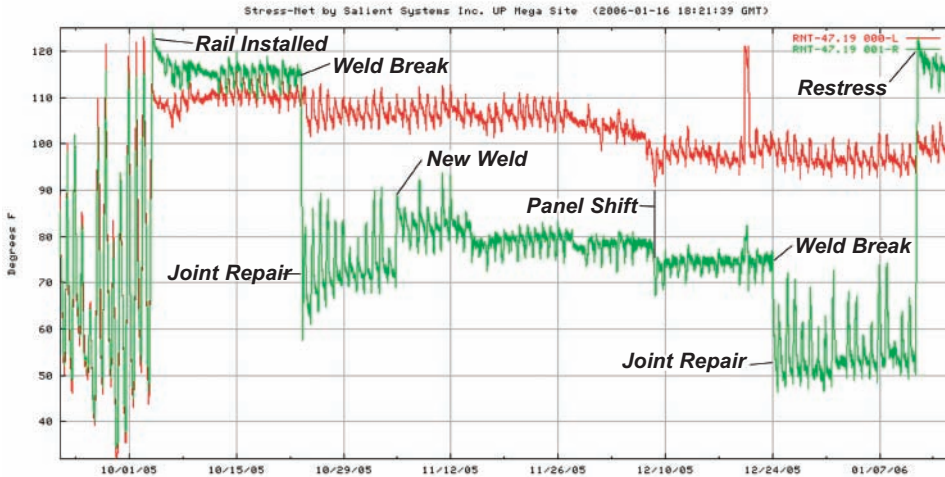
Wireless RailStress Measurements

Salient Systems RailStress modules use proven strain gage technology and a solid-state temperature sensor to make accurate and repeatable measurements of rail stress and temperature.

The module measures and stores stress/temperature pairs at periodic intervals (typically 10 min).

Rail stress and temperature readings are transmitted to a handheld, vehicle, or train mounted interrogation system that accumulates and displays readings from multiple modules before they are uploaded to the Salient StressNet database.

The graphing capabilities of the StressNet database web application provide users with the ability to review data at various levels of detail.



System Specifications:

Size:	27 cm x 9 cm x 4.5 cm
Weight:	1.8 kilograms
Battery Life:	10 years maximum
Peak Power Consumption:	1/4 watt
Range – Handheld or Vehicle Mounted:	30 to 500 meters
Operating Frequency:	2.400 – 2.4835 GHz
Sensor Type:	Welded strain gage
Operating Temperature:	-40 C to +70 C
Zero Calibration:	Required
Mounting:	No Mounting Hardware Required
Data Storage Capacity:	6 months of 10 minute intervals

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