

# Wireless L/V Module

## Features

- Compact
- Self contained – no external wiring
- Simple installation
- RF data transmission
- On-Site Data Storage
- Monitors Vertical Forces
- Monitors Lateral Forces
- Calculates and Reports Lateral / Vertical (L/V) Force Ratios
- Reports to StressNet database
- Accessible through convenient Remote Performance Monitoring (RPM™) Web Interface
- Available as Integrated “Feedback Loop” for Top of Rail Friction Control



## Wireless L/V Module

The Salient RF L/V Module is a completely self-contained battery powered measurement device used to measure both lateral and vertical loads, as well as L/V ratios, from passing wheels. This information can then be used for vehicle/track force characterization or as a feedback mechanism to L.B. Foster Friction Management Top of Rail (TOR) friction control devices (both wayside and mobile).



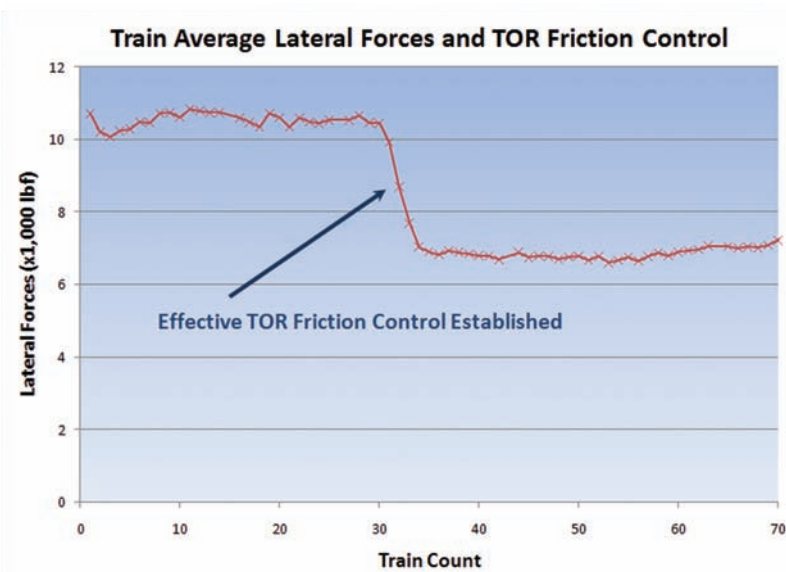
Wayside and Moving Platform Communication Links

# Wireless L/V Measurements

Salient Systems L/V modules use proven strain gage technology and hardened, purpose-built electronics to make accurate and repeatable measurements of wheel/rail forces and temperature.

The module measures and stores Lateral and Vertical measurements of each passing train wheel, subsequently calculating L/V ratios and characteristic values to generate a compact, efficient data stream.

The resulting data is then transmitted via RF to a handheld, wayside, or moving platform based interrogation system for final transmission to the appropriate database for archival and data manipulation.



## System Specifications:

Size: 43 cm x 9.5 cm x 4.75 cm

Weight: 4.5 kilograms

Battery Life: 2 years (replaceable)

Peak Power Consumption: 1/4 watt

Range – Handheld or Vehicle Mounted: 8 or 33 meters

Operating Frequency: 2.400 – 2.4835 GHz

Sensor Type: Welded strain gage

Operating Temperature: -40 C to +70 C

Mounting: Two 10mm bolts through neutral axis

Data Storage Capacity: 2000 train records

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