

Truck Performance Detector (TPD)

Features

- Train, Vehicle, and Wheel information
- Bi-directional traffic
- Automatic car counting and identification (with valid car library)
- Wired or wireless communications
- Robust hardware (20+ years of design and improvements)
- Self Diagnostics
- Automated alarm notification



Truck Performance Detector (TPD)

Salient Systems Inc. is providing the worldwide rail industry with hardened performance monitoring equipment for evaluating vehicle curving performance. The Truck Performance Detector measures vehicle response during curve negotiation and provides valuable insight as to vehicle mechanical condition. Built from the WILD framework, Salient's TPD provides reliable monitoring to make critical decisions for reducing the stress state of the railway.

Benefits:

- Reduce stress state
- Monitor individual vehicles
- Monitor fleet performance
- Evaluate lubrication effects
- Evaluate new vehicle components
- Compare operating practices
- Improve safety
- Reduce operations costs
- Plan maintenance based on performance



a subsidiary of **PORTEC RAIL PRODUCTS, INC.**

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Measurements and Calculations:

- Lateral Wheel Load
- Vertical Wheel Load
- Axle Angle of Attack (AoA)
- Automated Equipment Identification
- L/V ratio
- TSLV (Truck Side L/V)
- NAL (Net Axle Lateral)
- LTFR (Lead Trail Force Ratio)
- Axle Load
- Truck Load
- Vehicle Load



System Specifications:

Operating speeds - 10 mph to 180 mph (50 to 300 km/h)

Resolution - 10 Lb. / 50 Newtons

Accuracy - 1% Static / 2% Dynamic*

Measurement zone - Right hand curve (2-cribs) / Tangent (2-cribs)/ Left hand curve (2-cribs)

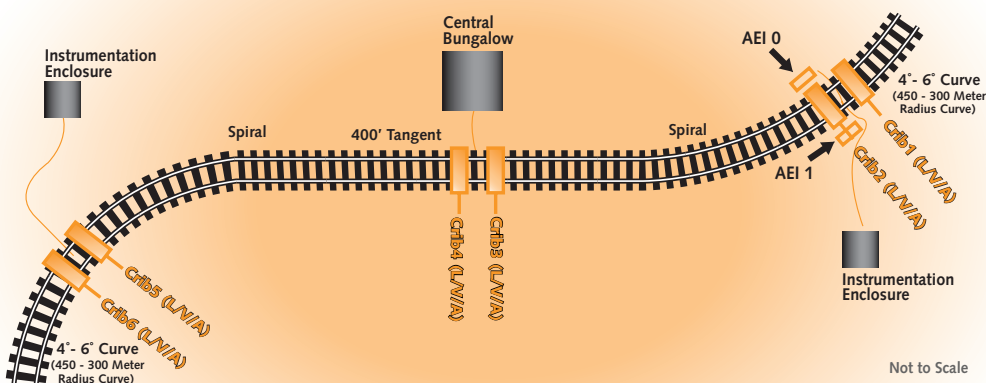
Hardened electronics in 19" rack

Power - 120/220 volts AC or 12/24 volts DC

Power - Approximately 4 amps at 24 volts DC

Electronic system operating temp. - 0 to 55°

* Typical vertical accuracy with WIM option



Not to Scale



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