

VRS241 Rail Scale

Reliable Weighing for Static or In-Motion Rail Cars



Static Weighing

The static version of the scale weighs uncoupled rail cars that are stopped on the scale. A typical installation consists of two weighbridges that are spaced to provide single-draft weighing for various lengths of rail cars.



In-Motion Weighing

The coupled in-motion (CIM) version of the scale weighs rail cars that are coupled together and moving across the scale at 3 to 5 miles per hour. It makes weighing quicker and safer by eliminating the need to uncouple rail cars and position them on a static scale.



POWERCELL Load Cells

POWERCELL® PDX® load cells deliver the ultimate in vehicle weighing with unequalled accuracy and reliability. They eliminate junction boxes and are hermetically sealed for use in the toughest environments. The predictive diagnostics system monitors performance and verifies network health.



Lightning Protection

The specially designed StrikeShield™ lightning protection system helps prevent costly downtime by using multiple levels of protection to safeguard your entire scale system: load cells, cables, and terminal. It is the only system that has been tested by third-party laboratories and withstood multiple lightning strikes.



Railroad Track Scale

No matter how demanding your application is, METTLER TOLEDO has a railroad track scale to handle the job. VRS241 scales are available for static weighing or coupled in-motion weighing. Choose between two deck options: a concrete deck with manholes and a steel deck with removable plates. Both provide easy access to the load cell network. VRS241 scales are designed to handle the massive loads applied by rail traffic. They are built to last, with the strongest structural components fully supporting the rails. METTLER TOLEDO scales are designed to weigh rail cars safely, accurately, and reliably.

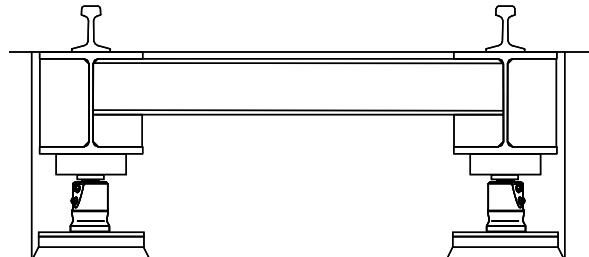
METTLER TOLEDO

Technical data

VRS241 Railroad Track Scale

Concrete or Steel Deck Weighbridge

Specifications	
Main Beam	W14 x 132 lb/ft
Cross Members	Two Formed Channels: 8 inches high Four Beams: W8 x 24 lb/ft
Steel Type	ASTM A-36
Capacity	170,000 lb (four load cells) 340,000 lb (six or more load cells)
Design Load	Cooper E-80
Profile	29½ inches + Rail
Module Length	12 ft-6 in
Scale Lengths	12 ft-6 in to 75 ft Single: 12 ft-6 in Double: 25 ft Triple: 37 ft-6 in
Foundation Type	Pit or Above Ground
eMin	50 lb
nMax	6,800 divisions
NTEP Certificate	90-001A2



VRS241 Cross Section

The weighbridge is designed so that the rails are positioned directly over heavy-duty I-beams. This provides robust support for the heavy loads applied by rail traffic. METTLER TOLEDO railroad track scales are designed in accordance with AREMA specifications and Cooper E-80 load criteria.

Features	Benefits
50t POWERCELL® PDX® Load Cells	Stainless steel load cells provide highest accuracy and reliability (IP68/IP69K).
POWERCELL® PDX® Network	Eliminates junction boxes and monitors network health.
StrikeShield™ Lightning Protection	Protects your system from lightning damage.
International Intergard® Finish	Protects steel against corrosion even in the harshest environments.
Modular I-Beam Design	Robust and reliable design provides a long service life.
Anti-Creep Brackets	Maintains weighing accuracy by preventing rails from moving.

Options:

- Custom Rail Size
- Custom Rail Gage
- Cooper E-100 Loading
- Pandrol e-clips (Standard)
- Bolt-on Clips (Optional)
- Grain Dump
- Scale Terminal
- Remote Displays
- Printer



Concrete Deck



Steel Deck



Produced in a
facility that is



Mettler-Toledo, LLC
1900 Polaris Parkway
Columbus, Ohio 43240
Tel. (800) 786-0038
(614) 438-4511
Fax (614) 438-4900

Subject to technical changes.
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