

Weighing Terminals



IND9R86

Enhances Operational Safety

Unattended Operation

Powerful Data Management

Increases Productivity



Productivity-Enhancing Solution Using Dynamic Railcar Weighing

METTLER TOLEDO

Predictive Maintenance and Asset Management

In conjunction with a METTLER TOLEDO dynamic rail scale, the IND9R86 provides the ability to automatically detect and notify maintenance personnel in the event of system errors such as load cell failure, scale overloads, and communications loss. Maintenance can be planned via a scheduled interval that is programmed within the controller, providing notice to operational staff that scale maintenance should be performed. System data is available, providing valuable asset utilization information to monitor facility operations.



The screenshot shows a software interface for a rail scale. At the top, it displays '66150' as the total weight. Below this, there is a table with columns: 'Axe #', 'Rail #', 'Type', 'Axles', 'Speed', 'Weight', 'Weight code', 'Tag', and 'Reliability'. The table contains 7 rows of data for different rail cars. At the bottom, there are buttons for 'Esc', 'Up', 'Clear', 'Select', and 'Enter'.

Axe #	Rail #	Type	Axles	Speed	Weight	Weight code	Tag	Reliability
1	0	Engine	4	2.4	0	Green zone	NoData 0	---
2	1	RailCar	4	2.3	102000	Green zone	RailCar WWWSX 199917	---
3	2	RailCar	4	2.0	53100	Green zone	NoData 0	---
4	3	RailCar	4	1.9	192500	Green zone	NoData 0	---
5	4	RailCar	4	1.9	200500	Green zone	NoData 0	---
6	5	RailCar	4	2.0	202500	Green zone	NoData 0	---
7	6	RailCar	4	2.1	188100	Green zone	NoData 0	---

Operator interface screen

Features, Specifications, and Options

Features

- Certified for use in legal for trade applications per NTEP H-44
- Configurable user software allows for simple customization to meet project requirements
- Expansive system memory and reporting capability allows for thousands of transactions to be saved locally, quickly and simply transferred to other applications, or printed
- Ability to simply verify legal for trade accuracy via pre-configured certification reports
- Fully integrated solution with scale terminal, PC, wheel detector interface, and I/O all in one stainless steel enclosure ready for wall or pole mounting
- Powerful application software running on Windows® XP operating system provides the ability for simple TCP/IP networking and interface to other equipment via USB, serial, or Ethernet connection
- Integrated lightning protection and local or remote scale diagnostics using proven METTLER TOLEDO POWERCELL® technology
- Effective for both new and retrofit applications, with the ability to interface to both POWERCELL® and analog load cells

Options

- PLC interface to plant automation networks using PLC fieldbus connectivity
- Radio communication interface to train engineer, for over-speed or other error conditions
- Intrinsically Safe Barrier for placement of scale in hazardous area
- AEI interface hardware with optically isolated connection and power supply
- Stainless steel junction box for wheel detector termination
- I/O for interface to speed signal lights or other devices
- Additional wheel detectors for dual direction weighing

Specifications

- 115VAC or 230VAC, 49 – 61 Hz
- Monochrome 240 x 64 graphical LCD display with 5 navigation push buttons
- Standard Communication Interfaces: Ethernet 10/100 Base-T with standard RJ-45, four (4) RS-232 ports, USB keyboard connection, USB printer connection
- 256MB RAM, Pentium® class processor
- Dimensions: 61 cm (24") H x 46 cm (18") W x 31cm (12"D)
- Scale interface: POWERCELL® or analog load cells, optional dual scale interface for summing of two scale platforms
- IP54 protection



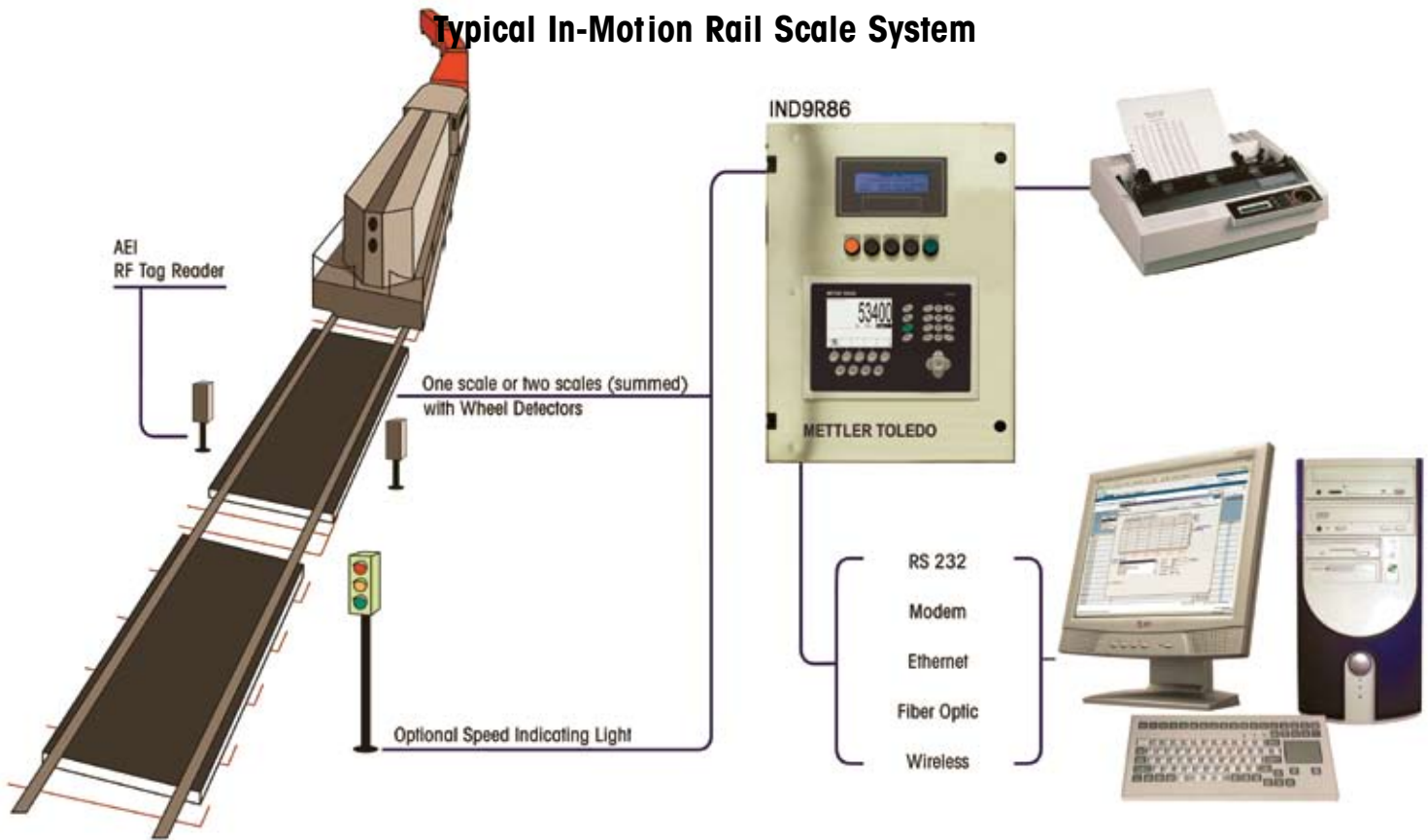
IND780 Panel Mount



Accurately Weigh a Variety of Materials and Railcar Types

The IND9R86 weighing controller can be used to weigh materials ranging from aggregates, wood pulp, steel, coal, to liquid materials such as chemical intermediates, food stuffs, and petroleum products. The flexibility of the IND9R86 allows for both "dual draft" weighing of each axle set on a single platform, or for "single draft" weighing of both axle sets at once. This provides the ability to achieve legal for trade weighing accuracy while weighing a variety of materials.

Typical In-Motion Rail Scale System



Recommendations for best Dynamic Weighing Accuracy

- Use a Mettler Toledo 7260CIM scale, designed to comply with AAR Scale Handbook Requirements.
- A straight and level approach with a maximum grade of 0.2% for an adequate distance proportional to the length of the trains being weighed.
- Three wheel detectors.
- Well-maintained cars.
- Assistance/information from local governing railroad.

METTER TOLEDO service technicians are factory trained to maximize return on your equipment investment, each step of the way. ServiceXXL® tailors the right combination of services for your business success.

Service Event	ServiceXXL® Delivers
■ Installation and configuration	■ Equipment ready-to-run on schedule ■ Setup optimized to your application ■ Seamless integration with other systems
■ Equipment Qualification	■ Compliance with requirements ■ Quality system documentation
■ Calibration	■ Calibration using factory procedures ■ ISO17025 Accredited Certification ■ Measurement uncertainty determination
■ Proactive Maintenance	■ Control of maintenance budgets ■ Improved equipment performance ■ Asset lifecycle management

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