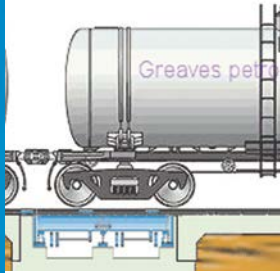
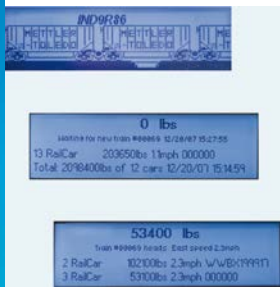


Rail Scale Controller Terminal for in-motion weighing of railcars



Weighing in motion

with train speeds up to 10 kph/6 mph (OIML)/8 kph/5 mph (NTEP) for increased productivity and throughput. Automatic detection of locomotives and car types assure efficient unattended operation.



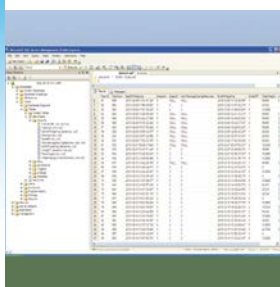
Optional Graphical LCD display

shows weighing data for each car and summary information once train weighing is complete. Also provides operator access to reporting and setup functions.



Local or remote PC LCD display interface

for comprehensive access to train weighing data, setup functions and current system status. Last train data displayed, including speed and direction.



Powerful data storage and communication

provides the ability to store hundreds of train reports in Access or SQL database formats, allowing for simple export via Ethernet, fiber optic, modem or wireless connection.



IND9R86 Controller Rail Car Weighing

The IND9R86 rail scale controller is used to weigh rail cars as they cross a scale at speeds up to 10 kilometers per hour. The controller automatically detects individual railcars as they cross the scale and provides transaction reports of both individual railcars and the entire train. Interface to inductive wheel detectors and Automatic Equipment Identification readers is provided. Compared to traditional static weighing, benefits include enhanced productivity, increased safety and fully unattended operation.

IND9R86

Rail Scale Controller Terminal for Dynamic/In-Motion Weighing

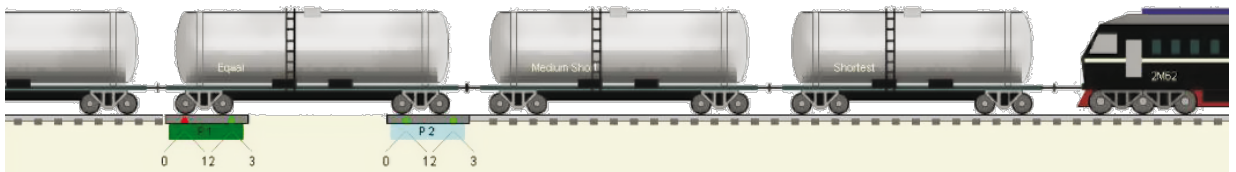
Features and benefits

- Weighing at speeds up to 10 kph/6 mph while railroad cars are coupled provides increased productivity and throughput
- Unattended or attended operation gives maximum user flexibility and personnel productivity
- Controller can interface to multiple platforms for in-motion or static weighing; this allows for simultaneous in-motion weighing of liquids using two platforms, as well as static weighing via one or two platforms
- Rollback detection and recovery allows for weighing in load-out applications where train may reverse direction
- Interface to AEI equipment allows for automatic entry of railcar ID data into weighment record, and net weight calculation
- Non-metric or metric configuration allows for use of units most acceptable at end use location
- Advanced software for diagnostics and simulation make installation and troubleshooting fast and easy, and allow for corrective action before problems occur
- Automatically-generated reports in .pdf and .csv formats

PSD

Pseudo-Single Draft Weighing

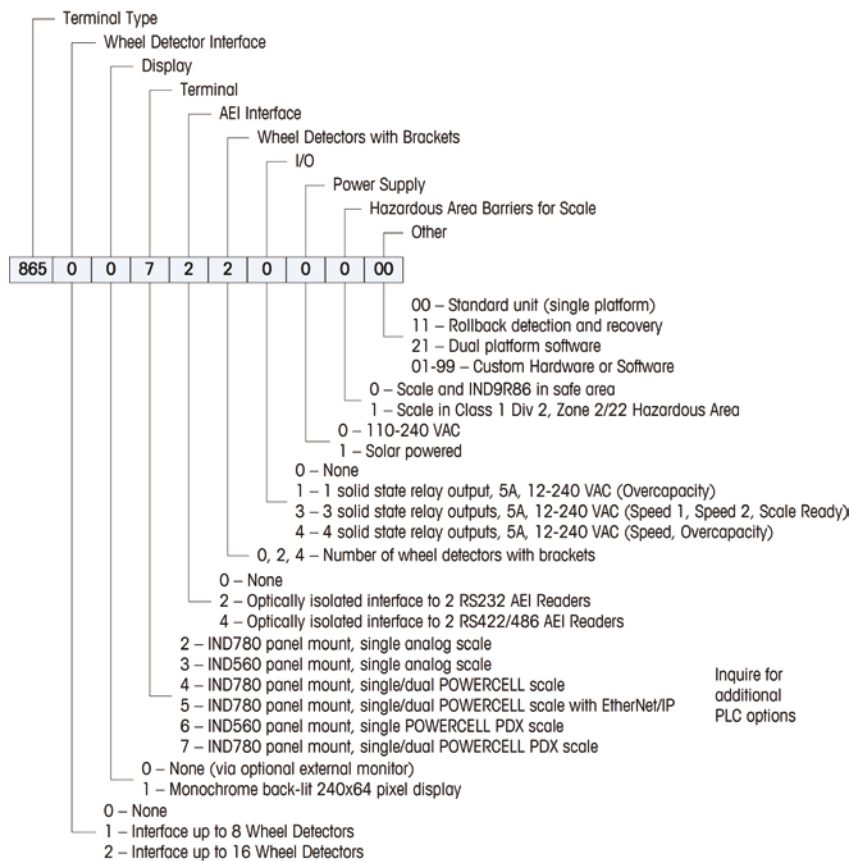
Single draft weighing is the ideal method for capturing railcar weights, especially for liquid cargoes where slight end-to-end weight shifts may compromise accuracy. In the real world, however, cars come in varying lengths, making true Coupled In-Motion single draft weighing impossible to achieve. PSD offers the solution: weighments for each bogie taken independently on two scale platforms spaced so that, regardless of car length, there is the least possible time gap between the car's two weight sampling periods. In addition to providing legal-for-trade accuracy that rivals true single draft weighing, this method employs a straightforward and cost-effective installation using only two small scale platforms.



Technical Specifications

Enclosure dimensions (H x W x D)	61 x 51 x 25.4 cm (24 x 20 x 10 in.)
Shipping weight	21 kg (46 lb)
Enclosure construction/environmental protection	Stainless steel wall-mount / IP54
Display	Standard connection for VGA monitor. Optional monochrome 240 x 64 backlit LCD display.
Power	100 - 240 VAC, 49-61 Hz
Scale types	Analog, POWERCELL® MTX®, POWERCELL® PDX®
Weighing terminals	METTLER TOLEDO IND560 or IND780
Number of scales	Up to 2 platforms, intended for use with 7260CIM scale and VRS241 PDX CIM scale (Most common scales can be retrofitted for use with the IND9R86)
External function keys	(Optional) 5 operator menu function keys
Standard peripheral equipment interface	Railcar wheel detectors, host PC, printer
Optional peripheral equipment interface	AEI readers, speed warning signal lights
Memory/Processor	2GB SDRAM, Atom processor
External keyboard	Supports optional external USB keyboard/mouse
Communications	4 RS-232 serial ports, 4 USB 2.0, 2 TCP/IP 10Base-T Ethernet
Options	Up to 8 wheel detectors, PLC interface, fiber optic converters, wireless Ethernet, dial-in Ethernet router, 1000VA on-line UPS
Operating environment	-10°C to 45°C (14°F to 113°F), 10% to 95% relative humidity, non-condensing
Agency approvals	NTEP COC 06-061 A2, OIML 0402-MID-49 50 01

System Configurations



METTLER TOLEDO Group

Industrial Division
Local contact: www.mt.com/contacts

www.mt.com

For more information



Subject to technical changes
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