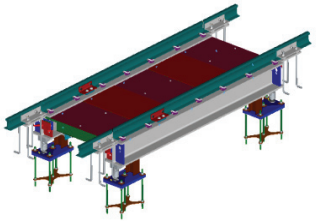

Produced in a Facility that is ISO 9001 Certified

VRS241 Railroad Scale

Standard with POWERCELL PDX

CONSULTATIVE

Approvals:

- NTEP COC 90-001A1
- Hazardous Area Protection Class I, II, & III, Division 2, Groups C, D, F, & G with IND780

Standard Features

- Five (5) year NO RISK Guarantee with Strikeshield Lightning Protection System
- 50 ton POWERCELL PDX load cells and cables
- Pandrol e-Clip rail mounting system ready to receive 115# AREA rail. Shoulders and clips included
- Anti-creep brackets for scale weighbridge, approach and center slab (if applicable) rails at the foundation end walls
- Installation KOP, adjustable checking system, safety stands
- Weighbridge module(s) designed for Cooper E80 loading

Options:

- Cooper E100 loading
- 115 lb rail size standard, other rail sizes available, specify size and classification when ordering.
- Bolt on Clips
- 200K POWERCELL available if required
- Concrete Deck

Notes:

- Prices do not include Indicator, printer, tickets, deck rebar, deck sheeting, foundation coping, foundation reinforcing steel, approach embedded hardware, home run cable, freight or installation. Canadian prices do not include ONT, PST, or GST.
- Indicate governing railroad when ordering.

Ordering Information

VRS241 with Pandrol e-Clip Rail Fastening System

Order Number	SAP Order Number	Module Combos	Capacity (T) Total	Capacity (T) Section	Quantity Load Cells	Quantity Modules	Shipping Weight (lb)	Suggested List Price (CDN$)
VRS241-P01PSA1	61045223	12.5'	85	85	4	1	6000	$28,556
VRS241-P02PSA1	61045224	25'	170	85	6	2	11,000	$49,387
VRS241-P11PSA1	61045225	12.5'/12.5'	170	85	8	2	12,000	$56,625
VRS241-P22PSA1	61045226	25'/25'	170	85	10	4	18,000	$98,525
VRS241-P12PSA1	61045227	12.5'/25'	170	85	10	3	21,000	$89,165

Call for quote on additional sizes

TC208766-1	61045234	Foundation Steel Single Module & CIM (Needed for each 12.5' single)	$7,647
TC208767-1	61045233	Foundation Steel Double Module (Needed for each 25' double)	$10,597

NOTE: Foundation Steel is required for each VRS241

Coupled In-Motion[1] VRS241 with Pandrol e-Clip Rail Fastening System

VRS241-P01PIA1	61045247	12.5'	85	85	4	1	6000	$30,192

Hazardous Area Division 1 Solution

Division 1 Hazardous Area Solutions require POWERCELL MTX with barriers. Call for custom solution

VRS 241 Options

Engineer-to-Order	Bolt On Clips (Pandrol is standard and no extra charge)	Price Per 12.5' Module	$554
Engineer-to-Order	Concrete Deck (Steel deck is standard)	Price Per 12.5' Module	$2,143

[1] Add an in-motion rail car controller (IND9R86)

7360 Combo RAILMATE®

Combination Rail/Truck Scale

Produced in a Facility that is ISO 9001 Certified

CONSULTATIVE

Approvals:

- NTEP COC 94-013A3, Measurement Canada approval #AM-4901
- Hazardous Area Protection Class I, II, & III, Division 1 & 2, Groups C, D, E, F, & G, Temperature Code: T4

Standard Features:

- Five (5) year NO RISK Guarantee with Strikeshield Lightning Protection System
- 100,000 lb (45 t) POWERCELL MTX load cells, j-boxes, and load cell cables
- Two (2) manholes
- Main beams are ready to receive 115# AREA Rail (rail clips and bolts are **NOT** included)
- Installation KOP, safety stands, and foundation steel (load-cell mounting plates and embeds)
- For Hazardous Area-intrinsic safe barrier box(es) and external power supply
- Weighbridge module(s) designed for Cooper E80 loading
- Vehicle Scale is 60,000 lb Dual Tandem rated.
- Deck Channel for Field Assembly
- One set of Installation and service manuals and one set of foundation prints

Options:

- Other scale lengths.
- Cooper E100 loading.
- 200K POWERCELL available, if required.
- Rail clips and bolts for rail mounting.
- Pandrol e-Clip rail mounting
- 115 lb rail size standard, other rail sizes available, specify size and classification when ordering.
- Anti-creep brackets for scale weighbridge and approach rails at the foundation end walls

Notes:

- Prices do not include Indicator, printer, tickets, deck rebar, deck sheeting, foundation coping, foundation reinforcing steel, approach embedded hardware, home run cable, freight or installation. Canadian prices do not include ONT, PST, or GST.
- Indicate governing railroad when ordering.
- Review Layout for additional hardware required: clips, bolts, anti-creep, etc.

Ordering Information

Order Number	SAP Order Number	Size	Capacity (T) Total	Capacity (T) Section	Quantity Load Cells	Quantity Modules	Shipping Weight (lb)	Suggested List Price (CDN$)
7360 DigiTOL RAILMATE Combination Rail/Truck Scale								
7360MT6010A	61024078	60' x 10'	170	85	12	3	31,000	$125,297
7360MT7510A	61024079	75' x 10'	170	85	14	3	38,500	$141,049
7360 DigiTOL RAILMATE Combination Rail/Truck Scale - Hazardous Area								
7360MH6010A		60' x 10'*	170	85	12	3	31,000	$133,873
7360MH7510A		75' x 10'**	170	85	14	3	38,500	$151,525

* Requires two (2) home run cables ** Requires three (3) home run cables

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7360 Combo DigiTOL® RAILMATE®

7360 Combo DigiTOL RAILMATE Hardware for 115 lb AREA

The hardware items listed below are offered as a convenience to the customer. METTLER TOLEDO recommends that all hardware be purchased from a rail supply house.

Order Number	SAP Order Number	Description	Shipping Weight (lb)	Suggested List Price (CDN$)
TC201651-8	61024679	Anti-creep brackets - 60' and 75' scales	650 lbs	$2,742
MZ0901010038	69033651	Live rail bolt - 1"-8 UNC x 5" grade 5	2 lbs	$20.00
MZ0901020047	61024585	Live rail hex nut - 1"-8 UNC-2B grade 5		$2.77
MZ0901030026	69033682	Live rail lock washer - 1" diameter		$1.40
TN300995	61024728	#62 Rail clip for approach plates (each)	3 lbs	$14.40
TN200713	61041661	Approach rail plate (10" x 8" x ¾")	17 lbs	$101

IND9R86 In-Motion

Rail Car Controller

Produced in a Facility that is ISO 9001 Certified

CONSULTATIVE

Features:

- PC-based weighing controller with Windows® based software application
- Fully automated and unattended dynamic in-motion weighing of coupled cars at speeds 0 - 5 mph (NTEP)
- Includes Scale terminal, Industrial PC, and wheel detector interface for automatic detection of trains and train speed
- "Dual draft" weighing each set of axles weighed individually, then summed, is standard
- Car identification from RFID tag is integrated in weighing record
- Store/print information from any length of train, with storage for hundreds of trains

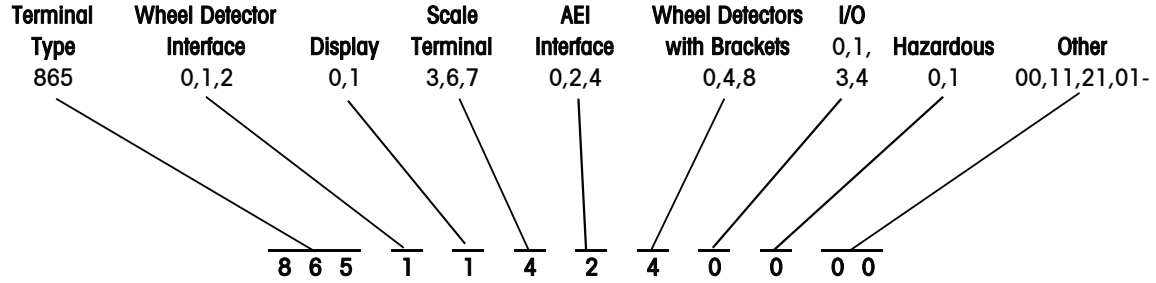
Options:

- "Single draft" weighing using two platforms for unstable loads, such as liquids, is possible. Contact CS&S for details
- Variety of network and peripheral device connectivity options are available

Notes:

- Contact a CSS vehicle specialist for IND9R86 options/accessories, project assistance and quotations

IND9R86 Model Configuration



Ordering Information

IND9R86 Base Unit

Order Number	Description	Shipping Weight (lb)	Suggested List Price (CDN$)
865	In-motion Rail Car Controller in a dust-tight enclosure		$20,474

Wheel Detector Interface

- Two dual wheel detector modules are required for normal weighing
- Additional modules are required if pre-speed detection is required.

0	No Interface	$0
1	Interface up to eight (8) wheel detectors	$1,103
2	Interface up to sixteen (16) wheel detectors	$2,204

Display

0	None (option for external monitor)	$0
1	Monochrome backlit 240x64 graphic display	$857

Scale Terminal

3	IND560 Panel Mount for Analog scale	$1,356
6	IND560 for PDX	$1,495
7	IND780 for PDX	$4,856

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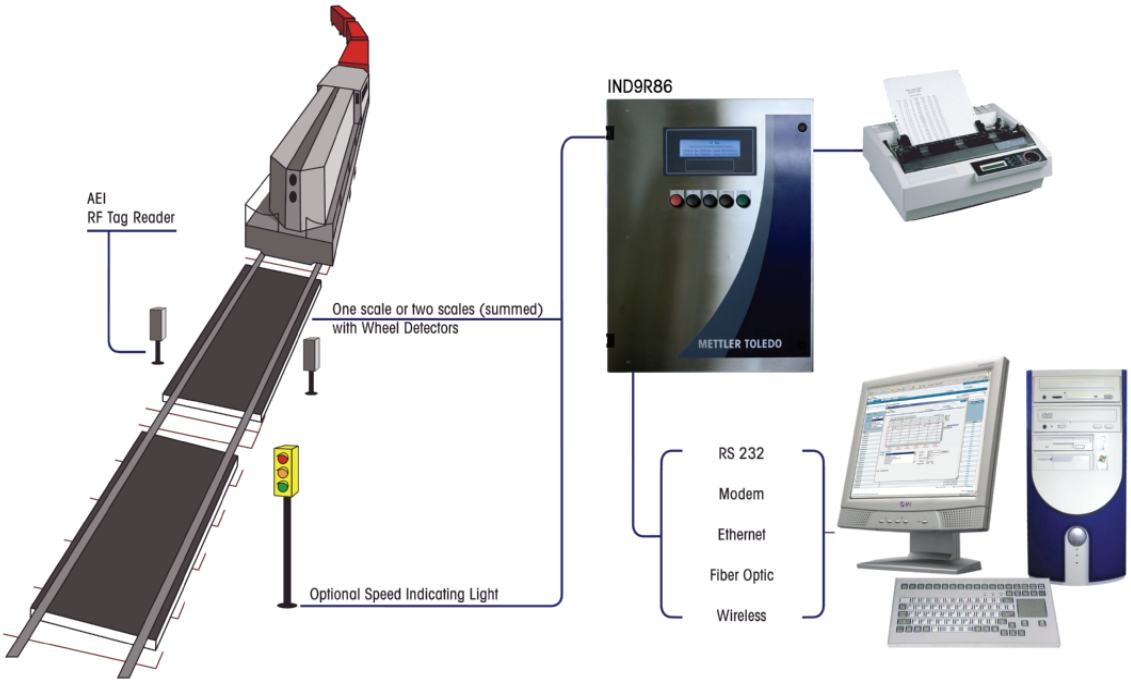
IND9R86 In-Motion Controller

AEI Interface			
Order Number	Description	Shipping Weight (lb)	Suggested List Price (CDN$)
0	None		$0
2	Optically isolated interface to 2x RS232 AEI Reader		$644
4	Optically isolated interface to 2x RS422/485 AEI Reader		$644
Wheel Detectors			
• 66' of cable installed			
0	No wheel detectors		$0
4	Two (2) Dual wheel detector modules		$7,581
8	Four (4) Dual wheel detector modules		$15,163
I/O			
0	None		$0
1	One (1) solid state relay output, 5A, 12-240 VAC (Overcapacity)		$192
3	Three (3) SS relay op's, 5A, 12-240 VAS (Speed 1, Speed 2, Scale Ready)		$539
4	Four (4) SS relay op's, 5A, 12-240 VAS (Speed 1, Speed 2, Scale Ready)		$730
Hazardous			
0	Scale and IND9R86 in Safe Area		$0
1	Scale in Class1, Div2, Zone2/22 Hazardous Area, **IND9R86 in Safe Area**		$0
Other			
0	Standard Unit		$0
11	Rollback Detection and Recover Software Module		$645
21	Single Draft and Dual Platform		Call CSS
01-99	Custom Hardware or Software		Call CSS



Accessories

Ordering Information

Railroad Scale Accessories

Order Number	SAP Order Number	Description	Shipping Weight (lb)	Suggested List Price (CDN$)
64056504	64056504	Cable, shielded, 2 Conductor, 20 AWG (per foot)		$1.37
90429300A	64041546	Stainless Steel junction box for 4 wheel detectors		$1,363
90429400A	64050304	Stainless Steel junction box for 2 wheel detectors		$1,257
91063900A	64089879	Wireless Communication Kit, factory install into IND9R86Kit		$1,725
91175500A	64060163	Wheel Detector with Bracket for Single Wheel Detector		**Call CSS
90808800D		On Line UPS, 1000VA, 800W, 115VAC		$1,150
91223500A	64065176	On Line UPS, 1000VA, 800W, 230VAC		$1,735
91022700A	64065177	LCD Flat Screen Monitor, 17"		$613
91105500A	64065178	Dial in Ethernet router		$477
909086104	64052037	Smart Pass, high power AEI reader for half & full frame tags, RS232/Wiegand		**Call CSS
909089110	64050490	Transcore full-frame, metal mount transportation tag, beam		$88
91224100A	64069335	STC Dual Antenna AEI Equipment, 100' cable, RS232 (U.S. Only)		**Call CSS
90893100A	64050169	6' Pole mount kit for AEI reader		$970
91304500A*	64066897	Radio Talk Over speed interface Assembly with Remote Start Weigh*		**Call CSS
inquire		PLC Option - software program to send in-motion weight to PLC		**Call CSS
91249100A		Remote display with pushbutton, Type 4 housing		$1,987
64083883	64089721	Wheel Detector Calibration Kit		$300
64083833	64083833	Wheel Detector Calibration Tester		$2,129

* This kit provides the ability to configure over speed alarms so that audible message, such as "over speed" are sent via a customer provided radio base station to a portable hand held radio receiver in the train engine. Additionally, allows the hand held radio to trigger an input that places the IND9R86 in the weighing mode. This allows the operator to remotely enable the system for weighing mode, thereby only weighing trains that need to be weighed. This prevents train reports from being generated for trains that cross the scale and are not of interest.

** Contact CS&S for pricing

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