In Motion Axle Scale

Rinstrum's In Motion Axle Scale is a fast, accurate and economical way to monitor commodities that are coming into or leaving your facilities.

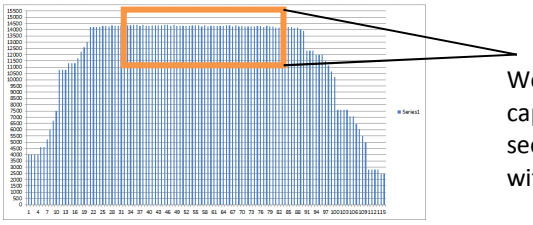
- **Monitor yields**
- **Document for Insurance purposes**
- **Verify tonnage before you get to local elevator**
- **Low cost with high return**

- Weather resistant enclosure with panel mounted stainless steel indicator
- Side mounted red and green traffic control lights (both sides)
- Automatic printout of Time/Date, Truck ID, Axle weights, and Gross, Net, Tare weights
- Inbound/outbound operation using temporary and/or permanent Truck ID numbers
- Memory for 250 Truck ID's
- Individual accumulation totals
- Back lit LCD is visible in all lighting conditions

Operation: Drive over the scale while moving a consistent 2-3 mph. The scale will automatically weigh each axle and print a receipt with individual axle weights and the total. If you store the trucks ID and tare weight, or use 2 pass weighing, the controller will calculate the Gross, Tare and Net values.

Easy: The In Motion Axle Scale is preconfigured for easy installation. The load cells are factory calibrated and the indicator is preprogrammed. All wiring uses watertight M12 connectors. Just install, add power, zero the scale and start weighing.

Accuracy: On average better than +-0.05% repeatability can be expected. Company testing as well as extensive field trials have shown that with extended flat and level concrete approaches 0.02% or better accuracy can be achieved. Individual results may vary. Well maintained vehicles weigh the best.



Weighing samples are captured at 100 times per second and then averaged within the offset window

Economical: About 1/4 of the cost of a full length truck scale. With the In Motion Axle Scale you will always know the total vehicle weight and the individual axle weights. Never worry about being overloaded again.

Certified: The scale is certified by SKS Engineering a third party engineering firm for "in road use" at 40mph up to 50,000 pounds.

Warranty: Two years on electronics and load cells (printer 1 year)

In Motion Axle Scales are not certified by NTEP as Legal-For-Trade

OPTIONS

- Indoor controller/printer with outside traffic lights
- 5 inch Remote Display with super bright LEDs

- Remote Truck ID key-fob system

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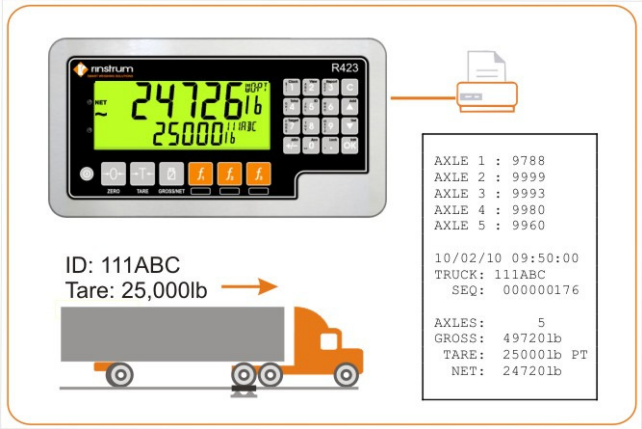
Operation

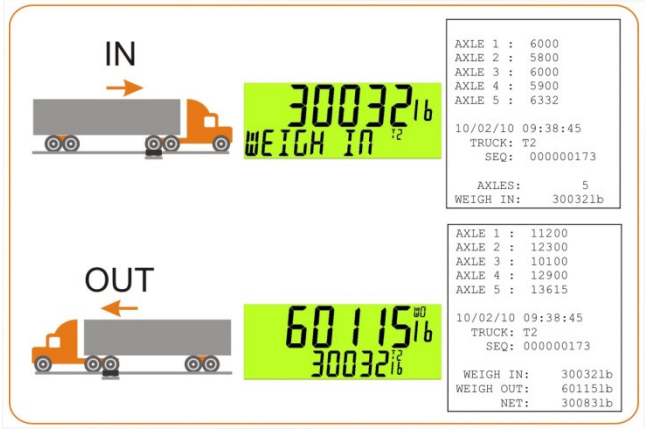


Single Pass Weighing with Known Tare Weight

Press the TRUCK Key
Enter your known Tare weight
Drive over the scale

OR

Press the TRUCK Key
Enter the Truck ID to recall a storred Tare weight
Drive over the scale



Two Pass Weighing – Weigh In and Weigh Out

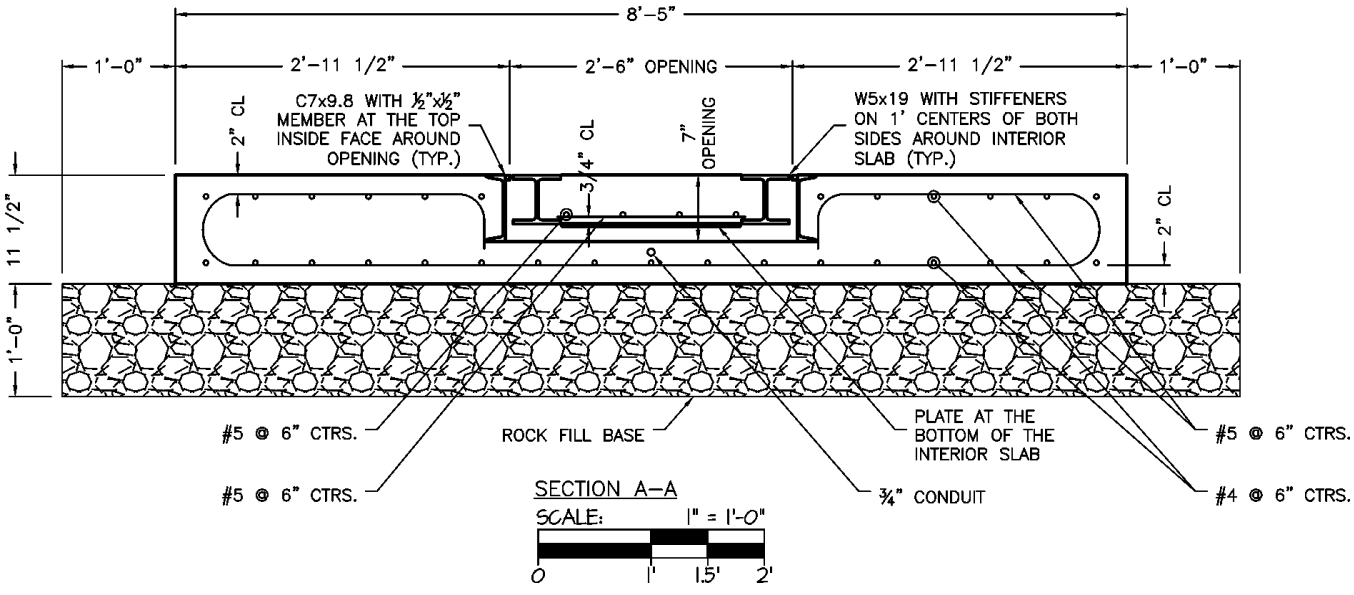
INBOUND

Press the TRUCK Key then OK
Drive over the scale

OUTBOUND

Use Up/Down arrows to select your Truck ID then OK
Drive over the scale

Platform Cross Section



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Step 1: Choose site with flat and level approaches twice the length of your longest truck

Step 2: Excavate and compact 14 X 10 foot hole 2 feet deep. Dig trench for home run cable and drains

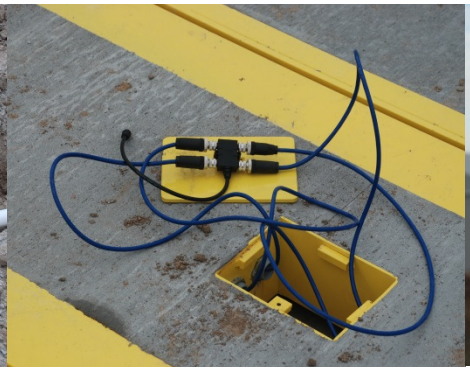
Step 3: Lay 4" tile drain and first 6 inch layer of CA6 crusher run stone. Compact to 95%

Step 4: Lay second layer of stone, compact flat and level. Surface should be 11.5 inches below grade

Step 5: Entire foundation must be flat and level. This is the most critical step toward achieving accuracy

Step 6: Set the scale using 50' of masons twine to ensure it is parallel to the road

Step 7: Slope 4 inch PCV drain away from foundation and run 1" conduit from scale to controller



Step 8: Make watertight electrical connections at scale and controller. Back fill perimeter of scale, drains and conduit runs

Step 9: Install controller and complete electrical connections. Apply power and weigh trucks

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SPECIFICATIONS:

Capacity	40,000 lbs (20t) per axle
Display Resolution	20 lbs (10kg)
Operating Speeds	Structurally Certified for "in road use" at 40 mph up to 50,000 lbs (22.7t) Recommended 2-3 mph (5km/h) Speed error above 7 mph
Static Overload	150% overload on 80,000 lbs load cells = 120,000 lbs (60t)
SCALE	
Precast foundation	Dimensions: 8.5 x 12 x 11.5' (2.6 x 3.7 x 3.5m) Weight: 16,000 lbs (7.3t)
Scale Insert	Dimensions: 2.5' x 11' x 5" (0.76 x 3.4 x .125m) Weight: 1,500 lbs (0.7t)
Mounting Assembly	Outboard, In-tension cradle assembly, self-contained
Load Cells	4 x 20,000 lbs (10t) folded shear beam load cells Stainless Steel, Hermetically Sealed, IP68 ingress Protection, M12 Watertight connectors
ELECTRONICS	
Zero Cancellation	+/- 2.0mV/V
Span Adjustment	0.1mV/V to 3.0mV/V
A/D Type	24bit Sigma Delta with ±8,388,608 internal counts
Operating Environment	Temperature: ambient 5 °F to 140 °F (–15 to +60°C) Humidity: <90% non-condensing
Display	LCD with 4 alpha-numeric displays and LED backlighting: Primary display: 6 x 1.12" (28.4mm) high digits with units and annunciators 2nd display: 9 x 0.7" (17.6 mm) digits with units 3rd display: 8 x 0.2" (6.1 mm) digits 4th display: 4 x 0.3" (7.6 mm) digits
Serial Outputs	Serial 1A: RS-232 serial port for remote display, network or printer supports. Serial 1B: RS485 transmit only for remote display
Battery Backed Clock Calendar	Battery life 10 years minimum
Additional Communications *	Module: RS232/RS232 Module: RS232/RS485 Module: RS485/RS485
Data Storage Device *	1
Ethernet TCPIP*	1
SITE REQUIREMENTS	
Approach – customer provided	Minimum 80' "flat and level" approach on either side of the scale recommended A poured concrete approach to the scale is **not** required but will improve accuracy. Minimum 10' poured concrete approach is recommended.
Foundation – customer provided	12" bed of CA-6 Structural Fill (crushed stone)

Customization: Custom applications quoted upon request and/or user programmable with optional Lua module

* optional modules requiring additional configuration
** Specifications subject to change without notice, please verify with Rinstrum prior to order