

axleWEIGHr



- **Rinstrum's axleWEIGHr is a fast, accurate and economical way to monitor commodities that are coming into or leaving your facilities.**

- Patent pending
- Save time and money
- Weather resistant enclosure
- Red/Green traffic control lights
- Automatic print: Time/Date, Truck ID, Axle weights, and Gross, Net, Tare weights
- Inbound/outbound operation
- 250 Truck ID's with totals

OPERATION: Drive over the scale while moving a constant 2-3 mph. The scale will automatically weigh each axleWEIGHr 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.

- **Monitor yields**
- **Document Insurance weights**
- **Verify tonnage before you go to local elevator**

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

ACCURATE: On average better than $\pm 0.5\%$ repeatability can be expected. Company testing as well as extensive field trials have shown that with extended flat and level concrete approaches $\pm 0.2\%$ or better accuracy can be achieved. Individual results may vary. Well maintained vehicles weigh the best.

OPTIONS

- Indoor controller/printer with outside traffic lights
- 3 inch remote display with super bright LEDs and quick disconnect cables



- Remote Truck ID key-fob so you don't have to leave the cab
- Two scale bi directional dump station system. Install a scale before after the pit.
- Software to monitors trucks, farms, fields, commodities, moisture and weight. Cloud and Android based.



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

ECONOMICAL: About 1/3 of the cost of a full length truck scale. With the axleWEIGHr you will always know the total vehicle weight and the individual axle weights. Never worry about being overloaded again.

INNOVATIVE: This patented design produces fast accurate weights without stopping on the scale or interrupting the flow of traffic.

WARRANTY: One year on printer, two years on controller, 5 years on load cells and precast concrete.

* axleWEIGHrs are not NTEP certified as Legal-For-Trade

Operation

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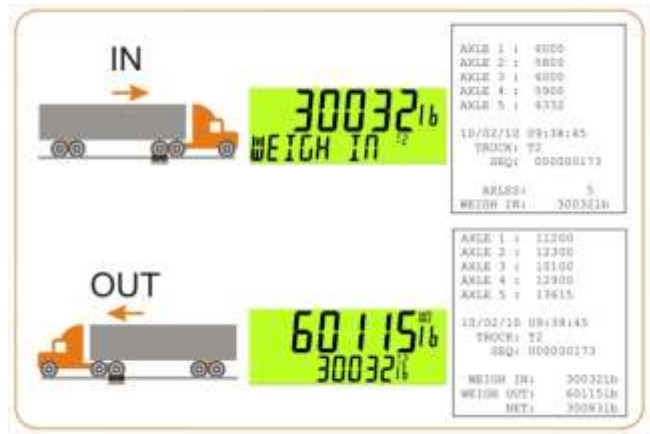


Single Pass Weighing With Known Tare Weight

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

OR

Press the TRUCK Key
Enter Truck ID to recall a stored Tare weight then OK
Drive over the scale



Two Pass Weighing – Weigh In and Weigh Out

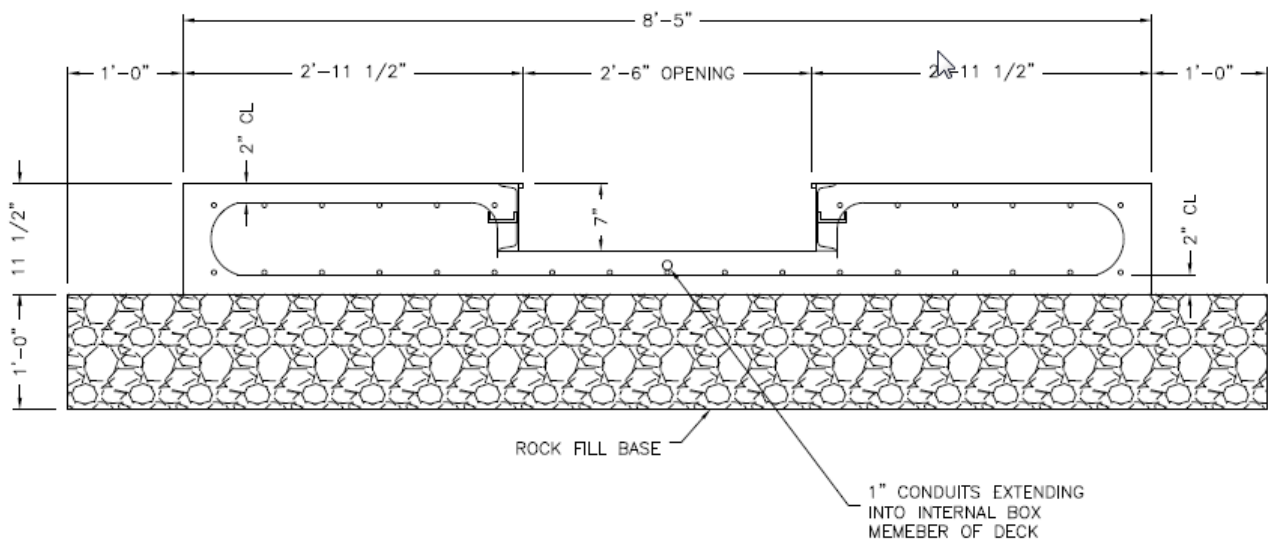
INBOUND

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 that is flat and level 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" drain tile and first 6 inch layer of CA-6 crusher run stone. Compact to 95%



Step 4: Lay second layer of CA-6 stone, compact to 95%. 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	50,000 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 speed 2-3 mph (5km/h) Speed error above 7 mph
Static Overload	150% on 80,000 lbs load cells = 120,000 lbs safe overload (60t)
SCALE	
Precast Scale Module	Dimensions: 8'6" x 12' x 11.5" (2.59m x 3.65m x 0.292m) 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)
Load Cell 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 two alpha-numeric displays areas and LED backlighting: Primary display for axle weights: 6 x 1.12" (28.4mm) high digits Secondary display for previous total weight: 9 x 0.7" (17.6 mm) high digits
Calibration	Factory calibration of load cells and indicator/controller
	Dynamic scaling factor to compensate for sloped driveways. (only use in one direction)
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 TCP/IP*	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)

* optional modules requiring additional configuration

** Specifications subject to change without notice, please verify with Rinstrum prior to order

For more information visit our web site a www.axleweighr.com

Send general inquires to SALES.USA@RINSTRUM.COM