


Dynamic In-Motion  
Axle Weighing

**axleWEIGH**   
instrument smart weighing

Patent Number: 9470574



axleWEIGH 

## Dynamic In-Motion Axle Weighing

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

Drive over the scale while moving a constant 2-3 mph. The scale will automatically weigh each axle and can print a receipt with individual axle weights and the total GVWR ideal for CoR requirements. If you store the trucks ID and tare weight, or use 2 pass weigh in weigh out weighing, the controller will calculate the Gross, Tare and Net values.

**1 Pre-cast Platform Structure**

- Install on a minimum of 24" of compacted flat and level CA6 crushed limestone.  
NOTE: More than 24" is required for certain soils to maintain a solid base.
- Concrete approaches increase accuracy and reduce maintenance and cleaning
- Entire scale is semi-portable and can easily be moved from site to site

**4 Accuracy and Performance**

- Better than 0.5% accuracy on average with proper use and installation
- Efficiently track inventory movement without stopping on the scale
- Obtain individual axle weights and gross vehicle weight

**3 Service**

- No specialty tools or knowledge required to install or maintain scale
- Weighbridge removal process allows for easy cleaning and service
- Sloped floor and 4" drain keep scale clean and dry

**2 Installation**

- Durable 5000 psi pre-cast platform structure
- Certified Patterson lifting points on both pre-cast platform and weighbridge
- Installation time is less than 8 hours (2 men) on average install precast platform from beginning to end

## Electronics Accessories



Indoor Unit



Outdoor Unit



Information Management Software



Truck Clicker system



D841 remote with built in traffic lights

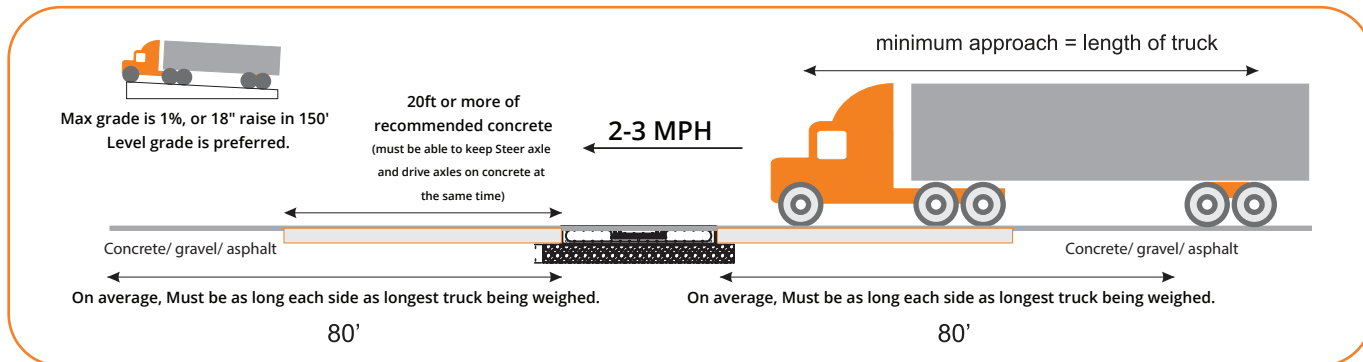
\*\*Ethernet, M12 connected, RS232/485

## Accurate

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

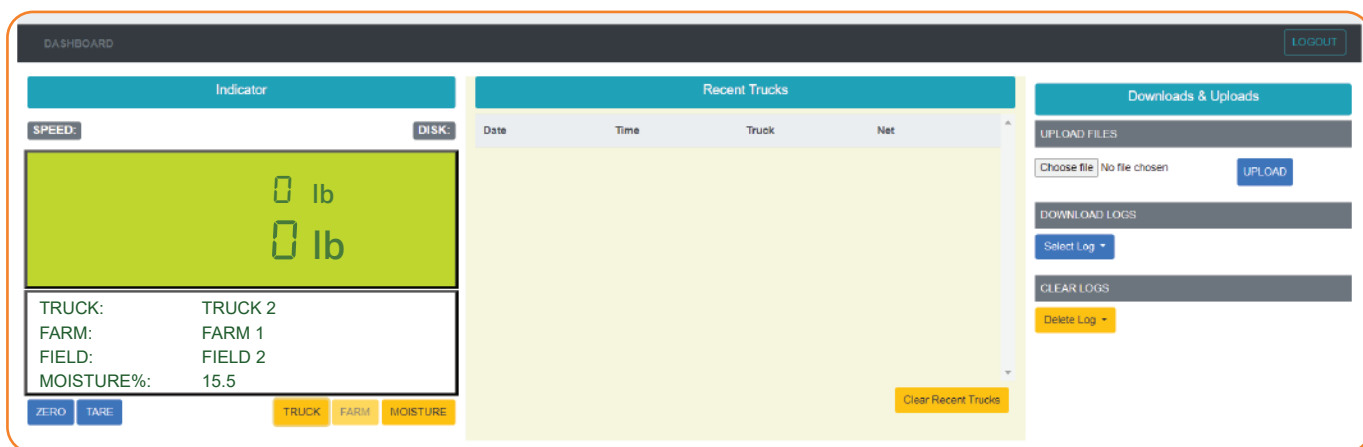


## Installation Recommendations

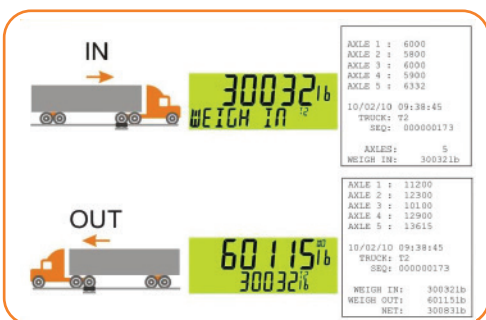


## Web Page

- Remote access to yield data
- Change truck and field data via web page



## Operation



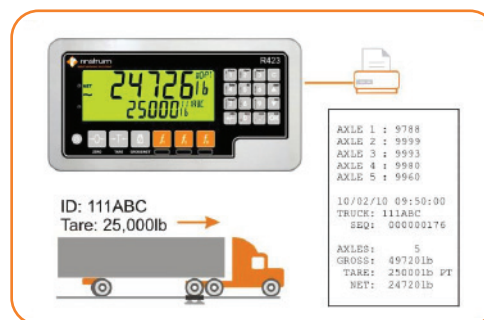
Two Pass Weighing – Weigh In and Weigh Out

### INBOUND

Press the TRUCK key, select Truck ID then OK, or press CLICKER  
Drive over the scale

### OUTBOUND

Press the TRUCK key, select Truck ID then OK, or press CLICKER  
Drive over the scale



Single Pass Weighing With Known Tare Weight

Press the TRUCK Key

Enter Truck ID to recall a stored Tare Weight then OK or press Clicker.  
Drive over the scale

## SPECIFICATIONS

AXLE-708-250

<b>Capacity</b>	50,000 lbs per axle
<b>Display Resolution</b>	20 lbs
<b>Operating Speeds</b>	Structurally certified for "in road use" at 40 mph up to 50,000 lbs Recommended speed 2-3 mph Speed error above 5 mph
<b>Overload</b>	150% (for 33,000 lb load cells)
<b>Scale</b>	
<b>Precast Scale Module</b>	Dimensions: 13'6" x 8'6" x 14" Weight: 19,700 lbs
<b>Scale Weighbridge</b>	Dimensions: 12' x 30" x 7.75" Weight: 2,100 lbs Drop wall versions available.
<b>Load Cell Assembly</b>	Outboard, In-tension cradle assembly, self-contained
<b>Load Cells</b>	4 x 33,000 lbs rocker compression/tension load cells. Stainless steel, hermitically sealed, IP69 ingress protection, M12 watertight connectors
<b>Site Requirements - Customer Provided</b>	
<b>Approach</b>	Based on average trucks, a poured 20' minimum concrete approach either side of the scale to improve accuracy. Recommended one truck length on either side of the scale with flat level approaches in concrete, gravel or asphalt.
<b>Foundation</b>	Determined after an Engineering Geo Test
<b>Indicator</b>	
<b>Power</b>	AC/DC options, 110V-240VAC, 12VDC-24VDC Input
<b>Output</b>	RS232, RS485, Ethernet TCP, USB support, I/O options
<b>Software</b>	LUA enabled -MAX application programmability options, Information Management Software
<b>Remote Display</b>	
<b>Display</b>	4" alphanumeric characters, Traffic lights - Red/ Green
<b>Power &amp; Comms</b>	AC/DC options, 110V-240VAC, 12VDC-24VDC Input, RS232, RS485 or Ethernet option

Local Dealer



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