


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

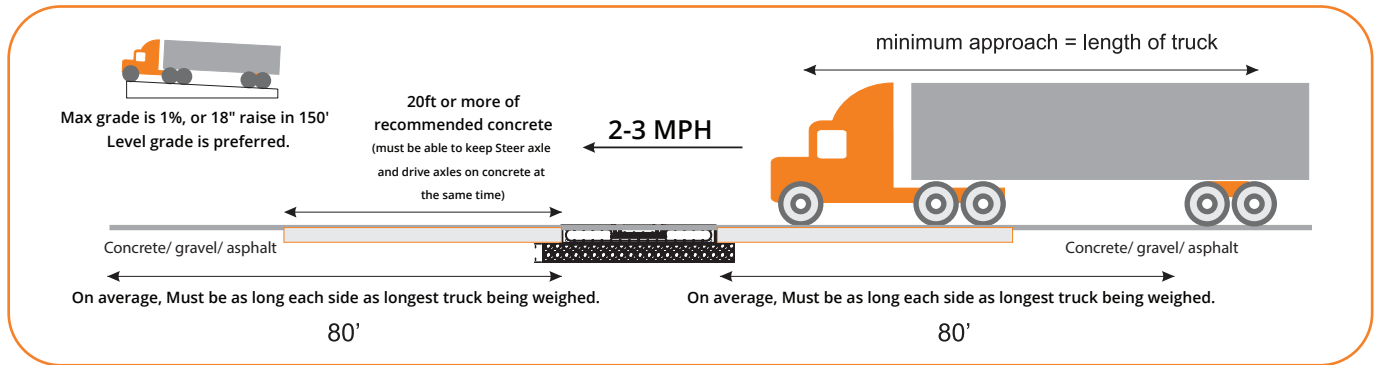
**Ethernet, M12 connected, RS232/485

Accurate

On average better than $\pm 0.5\%$ accuracy 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 on average. Individual results may vary. Well maintained vehicles weigh the best.

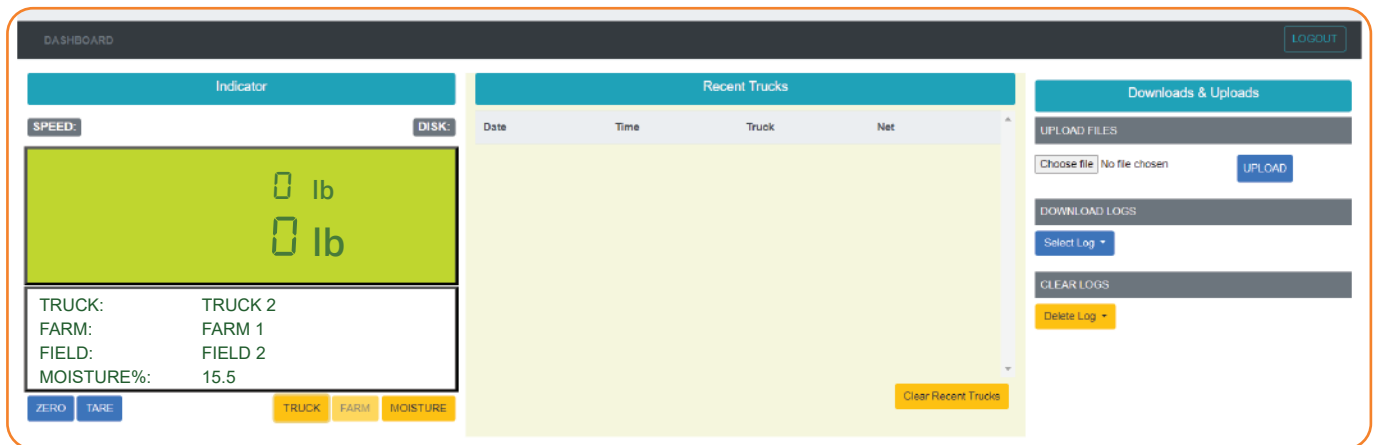


Installation Recommendations

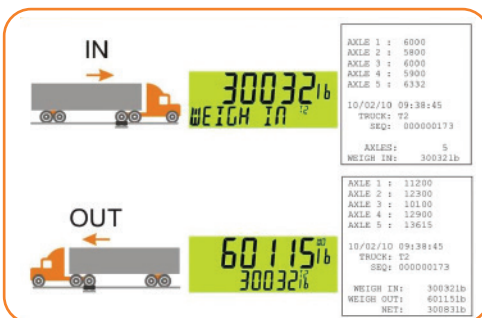


Web Page

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



Operation



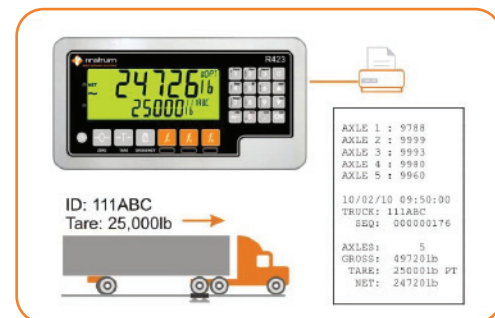
Two Pass Weighing – Weigh In and Weigh Out

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

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



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