

FAIRBANKS[®]

S C A L E S



AXLESURANCE

SLOW SPEED IN-MOTION VEHICLE WEIGHING SYSTEM

Precheck vehicle weights for highway travel and ensure load balance with Fairbanks AxleSurance. This economical scale system is ideal for any operation concerned with highway safety, vehicle rollover prevention, or inventory reporting.

Fairbanks.com

AXLESURANCE

SLOW SPEED IN-MOTION VEHICLE WEIGHING SYSTEM



• Save Time & Money • Eliminate Overload Risk • Improve Inventory Reporting

AxleSurance is an easy-to-install and easy-to-use slow-speed axle weighing system that reduces install time, requires less real estate, and speeds weighing operations, when compared to traditional static truck scales. It is specifically designed as a more affordable option for vehicle weighing customers who do not have the space or need for a traditional full-size truck scale.

While not commercially approved, the AxleSurance system meets NTEP standards and is a worthy investment for safety-conscious customers who want to ensure that their company trucks are not at risk for highway overload or load imbalance. It is also ideal for customers who simply want to better manage inventory.

The AxleSurance system provides axle and gross truck weights



that can be displayed, printed and saved for easy record keeping and reporting. AxleSurance is offered by Fairbanks as a complete vehicle weighing system that contains all the primary components needed for slow-speed, in-motion checkweighing, including software customized for farm, aggregate or base (other) applications.

AxleSurance works best at a consistent speed of 3 mph and will calculate, display and capture individual axle weights as a truck rolls over the weighbridge. The system sums the weights and prints both individual and gross weight results on each ticket. Tare weights can be prestored into a database or recorded with an in/out operation.

What is included in a Fully-loaded AxleSurance Package?

The package includes all the primary components of the AxleSurance System shown at right, plus all required data cables. (*AxleSurance primary components are also sold separately and other module sizes are available for custom configurations.*)



11' Precast Scale Module



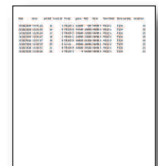
Outdoor Console with integral Instrument, Printer, Traffic Lights



Remote Display



Remote Key FOB Truck ID System

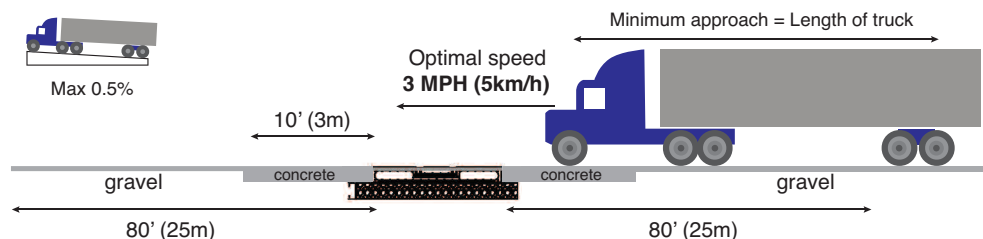


Information Management Software (Reporting)

Installation Recommendations: AxleSurance In-Motion Weighing System



Installation with extended concrete approaches.





Ideal for agribusiness, dairy and aggregate operations.



AxleSurance Vehicle Weighing Advantages

1 Precast Weighing Module

- Lower cost vehicle weighing solution.
- Requires less real estate and is easy to install.
- Certified Patterson lifting points on the platform and weighbridge.
- Entire scale is semi-portable and can be moved from site to site.
- Durable 5000 psi precast platform structure.



2 Accuracy and Performance

- Better than 0.5% accuracy (on average) with proper use and installation.
- Efficiently track profits and inventory movement to improve ROI.
- Capture individual axle weights and gross vehicle weight before entering public roads.



- One day installation using certified scale technicians.
- Precast unit can be set in place with a backhoe or a small crane.
- A minimum 12" bed of compacted flat and level CA6 crushed limestone provides lasting support for the module.

- Calibration is performed by a certified scale technician as part of turnkey installation service.
- Concrete approaches are recommended for maximum scale accuracy and can be poured during installation.

3 Installation



Service 4



date	time	printid	truck.id	Truck	gross	Net	farm	farm.field	farm.variety	moisture
3/18/2018	13:35:24	15	1	TRUCK 1	44600	500	FARM 1	FIELD 1	P104	55
3/18/2018	13:35:54	16	8	TRUCK 8	44540	39040	FARM 1	FIELD 1	P104	55
3/18/2018	13:36:24	17	2	TRUCK 2	34600	12600	FARM 1	FIELD 1	P104	55
3/18/2018	13:36:47	18	2	TRUCK 2	44600	22600	FARM 2	FIELD 2	P104	35
3/18/2018	13:37:07	19	8	TRUCK 8	66820	61320	FARM 2	FIELD 2	P104	35
3/18/2018	13:37:19	20	9	5//+8	44600	38200	FARM 2	FIELD 2	P104	35
3/18/2018	13:38:51	21	8	TRUCK 8	44600	39100	FARM 3	FIELD 1	P104	21
3/18/2018	13:39:26	23	3	TRUCK 3	0	64340	FARM 3	FIELD 1	P104	21

AxleSurance Information Management Software

AxleSurance software is available in three formats: Farm, Aggregate and Base. The preferred software format is chosen during startup procedures. Each format offers full customization. With prestored tares, customers can ID and weigh trucks via a

one-pass system. If tare weights need to be established, two passes are required. Axle weights, truck ID, and other variables are captured, printed for the driver, and stored as a CSV file for future analysis/import into the customer's ERP system.

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Weighing Solutions for the World Since 1830

Fairbanks.com

SPECIFICATIONS

System components

Fully-loaded AxleSurance

Package	Precast 11' (3.35 m) scale module, Remote display, Instrument in weatherproof outdoor console with integral printer & traffic lights, Truck remote RFID kit with 8 truck key fobs (expandable), Information management software, Data cables
Capacity	50,000 lbs (25 tons, 22,680 kg) per axle
Display resolution	20 lbs (10 kg)
Dynamic accuracy	Meets NTEP Class IIIIL maintenance tolerance on average (with full-length concrete approaches)
Static accuracy	Meets Handbook 44 Class IIIIL acceptance tolerance
Operating speeds	Structurally certified for "in road use" at 40 mph (64 km/h) up to 50,000 lbs (25 tons, 22,680 kg), recommended speed 2-3 mph (5 km/h), speed error above 7 mph (11 km/h)
Static overload	150% on 80,000 lb (36,287 kg) load cells = 120,000 lb safe overload (60 tons, 54,431 kg)
Precast scale module	
Module dimensions	12' x 8' 5" x 11.5" (3.65 m x 2.56 m x 0.29 m)
Module weight	14,200 lbs (7.1 tons, 6,441 kg)
Weighbridge dimensions	11' x 2.5' x 5" (3.4 m x 0.76 m x 0.125 m)
Weighbridge weight	2,100 lbs (1.05 tons, 953 kg)
Load cell	4 x 22,000 lbs (10 tons, 9,979 kg) folded shear beam, stainless steel, hermetically sealed, stainless steel, hermetically sealed, IP68 ingress protection, M12 watertight connectors
Load cell assembly	Outboard, in-tension cradle, self-contained

Electronics

Zero cancellation	± 20% of full scale (± 2.0mV/V)
Span adjustment	0.1mV/V to 3.0mV/V
A/D type	24 bit Sigma Delta with ± 8,388,608 internal counts
Operating environment	Temp 5° F to 140° F (-15° C to 60° C) Humidity < 90% non-condensing
Display	LCD with two alpha-numeric display areas and LED backlighting: Primary display for axle weights 6 x 1.12" (15.2 x 2.8 cm) high digits, Secondary display for total weight 9 x 0.7" (22.8 x 0.18 cm) high digits
Calibration	Factory calibration of load cells and instrument, 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 options*	Module RS232/RS232 Module RS232/RS485 Module RS485/RS485 Ethernet TCP/IP USB data storage device *Optional modules require extra configuration

Site requirements

Approach	Minimum 10' (3 m) poured concrete approach is recommended. Minimum 80' (24.4 m) flat and level approach on either side of the scale is recommended. A poured concrete approach to the scale is not required but will improve accuracy.
Foundation	12" (30.5 cm) bed of CA-6 structural fill (crushed limestone is typically provided by the customer)

Your Fairbanks Scales Authorized Representative is:

Call toll-free for the representative nearest you:

(800) 451-4107

Call between 8:00 a.m. – 5:00 p.m. Central Time

Corporate Offices: 821 Locust • Kansas City, MO 64106 • (816) 471-0231

Internet Address: <http://www.Fairbanks.com>

