

# FAIRBANKS<sup>®</sup>

## 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.

# AXLESURANCE

## SLOW SPEED IN-MOTION VEHICLE WEIGHING SYSTEM



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

**A**xleSurance 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.

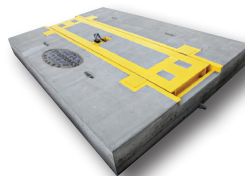
AxleSurance is offered by Fairbanks as a complete vehicle weighing system that contains all the primary components

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.)



12' Precast Scale Module



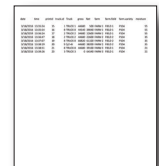
Outdoor Console with integral Instrument and Printer



Remote Display



Remote Key FOB Truck ID System

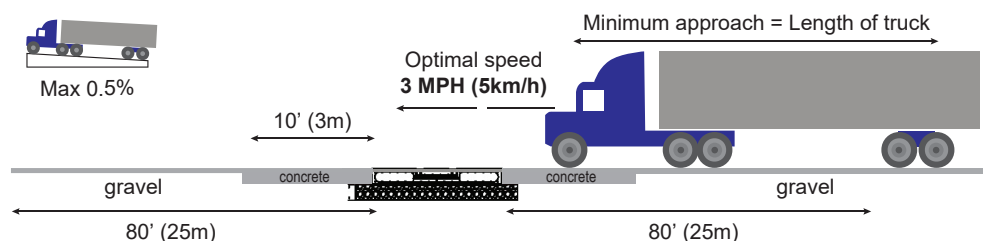


Information Management Software (Reporting)

### Installation Recommendations: AxleSurance In-Motion Weighing System



Installation with extended concrete approaches.





Ideal for agribusiness, dairy and aggregate operations.



## AxleSurance Vehicle Weighing Advantages

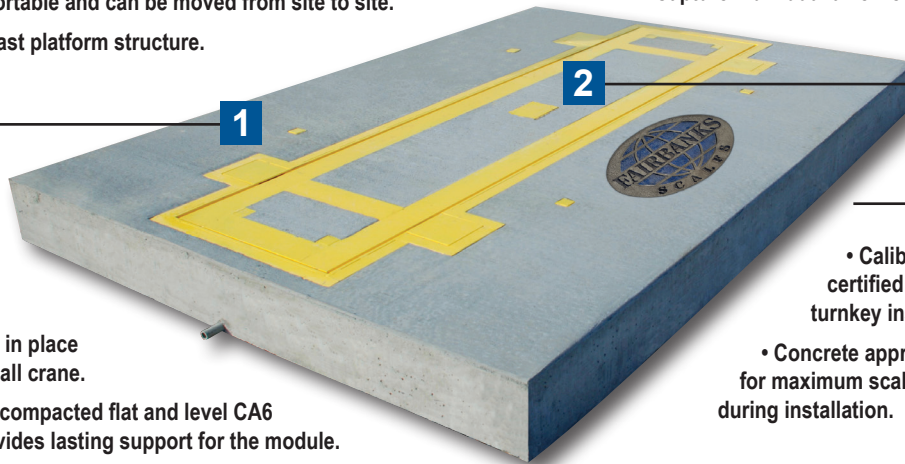
### 1 Precast Weighing Module

- 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 24" 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



### 4 Service



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	13:38:19	20	9	S//+B	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.

# AXLESURANCE

## SLOW SPEED IN-MOTION VEHICLE WEIGHING SYSTEM

Weighing Solutions for the World Since 1830

Fairbanks.com

### SPECIFICATIONS

#### System components

Fully-loaded AxleSurance Package . . . . .	Precast 12' (3.65 m) scale module, Remote display, Instrument in weatherproof outdoor console with integral printer, Truck remote RFID kit with 8 truck keyfobs (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 . . . . .	13' 6" x 8' 5" x 14" (4.11 m x 2.56 m x 0.35 m)
Module weight . . . . .	16,500 lbs (8.5 tons, 7,484 kg)
Weighbridge dimensions . . . . .	12' x 2.5' x 5" (3.7 m x 0.76 m x 0.125 m)
Weighbridge weight . . . . .	2,500 lbs (1.25 tons, 1134 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" (22.8 x 0.18 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 compensate for sloped driveways
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

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