

Avery Weigh-Tronix

Traxle™

total truck & axle weighing system

Revolutionary
technology
that will change
the way you
think about
truck scales and
axle weighing.



Traxle measures both total and axle weight on a standard truck scale

- Lower capital investment
- Greater flexibility in scale selection
- Off-site monitoring and diagnostics
- Multiple output capabilities

Correct axle weight and profitability

Overload fines, accident liability suits, lost time at DOT scales and premature equipment wear – most companies clearly recognize the impact of axle weights on their bottom lines. With the inherent economies of Traxle and a shorter return on investment, on-site axle weighing is now a viable option for many haulers who could not previously justify the cost.

What makes Traxle different from a traditional axle scale?

Traxle is a patented measurement system that uses software and innovative sensor polling technology to calculate both individual axle weight and total truck weight on a conventional truck scale. The system offers greater flexibility by allowing the selection of any Weigh-Tronix model truck scale: top-of-the-line SteelBridge, high-value BridgeMont and versatile portable models.

Even many existing Weigh-Tronix truck scales that have been in service for years can be upgraded for axle weighing with a Traxle retrofit kit.

Traxle does more with less

A Traxle truck scale saves thousands of dollars over a comparable multi-platform axle scale. Traditional one-step axle scales are actually a series of independent scales used in combination. Each scale platform requires its own set of weight sensors. Traxle uses a single platform comprised of modular sections that share weight sensors. Fewer sensors not only means a lower base price, but reduced installation cost and savings on long-term maintenance.

Yes it can

Traxle is unparalleled in its ability to satisfy different user needs. The system is so advanced, scales almost run themselves.

Internal Diagnostics—

The system continuously monitors signal strength from every weight sensor to ensure the scale is always operating within normal parameters. If a problem is detected, operator “System Warnings” are clearly spelled out on the indicator display.

Off-site Monitoring and Remote Access—

Networking capabilities allow bi-directional data communication between the scale installation and a central office, home or service center.

With the modem-to-computer or Ethernet 10/100 option, the scale can also automatically report error conditions to the service center. Technicians, in turn, can communicate with the system to evaluate problems and determine fixes before ever stepping on-site.

Control of Auxiliary Equipment—

A Traxle installation can be tailored to the application with additional devices including: printers, remote weight displays, stop and go lights and audible signals.

TraxleTM

total truck & axle weighing system

Fast, accurate measurement of axle weights, plus legal-for-trade gross, tare, and net weights

Scale system design

In planning a scale installation, consideration must be given to axle spacing, the number of axles or axle groups, and the method of operation. Each set of axles to be weighed must rest on a specific module of the scale and remain on that module during the weighing procedure.

Weigh-Tronix fabricates modules in many sizes and can configure a combination to meet any need. Standard module lengths are 10, 12, 20, 23 and 25 feet.

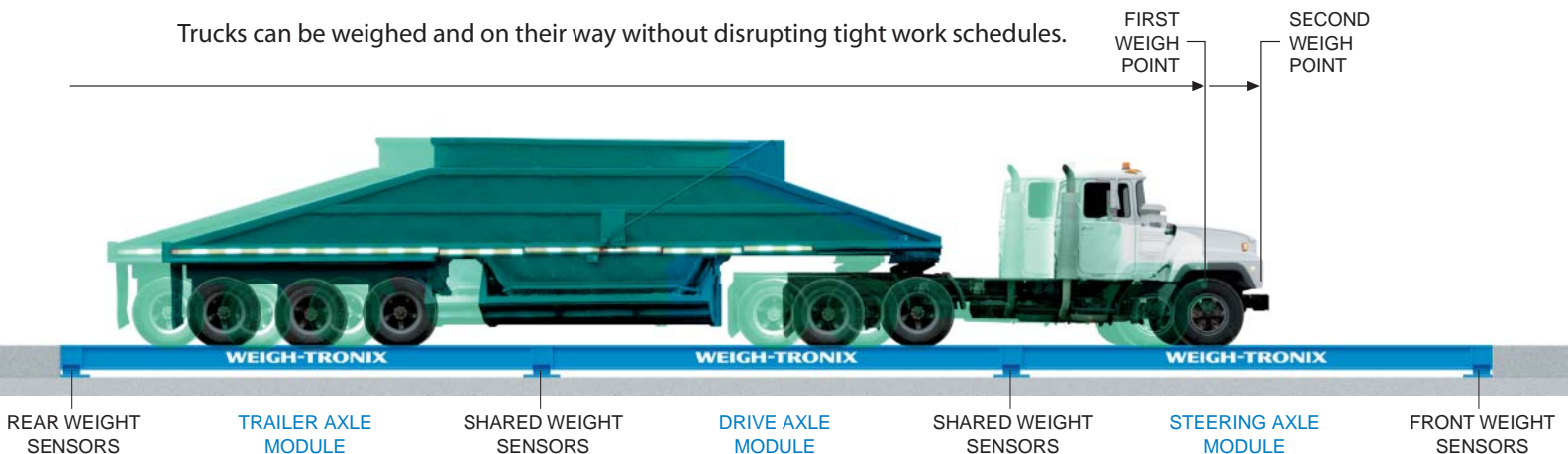
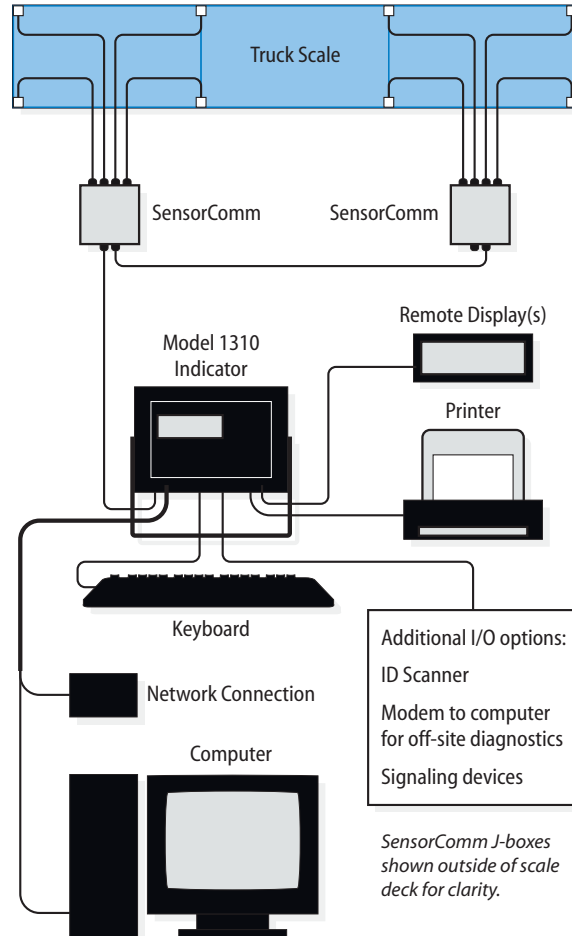
Platform widths and load capacities vary with the style of scale selected.

Simple, two-step axle weighing

Traxle doesn't waste valuable time. Drivers simply pull onto the scale and stop for the initial weight reading, then advance a minimum of 24 inches and stop for a second reading. The patented measurement acquisition software automatically calculates the weight of steering, drive and trailer axles. Three axle weights and total weight are simultaneously displayed on the Model 1310 Indicator.

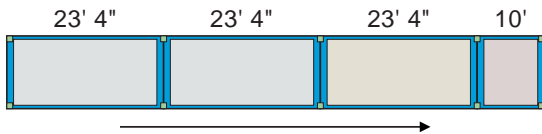
Trucks can be weighed and on their way without disrupting tight work schedules.

From basic weight display to an integrated network — Traxle is easily expanded to satisfy your changing needs.



Traxle applications

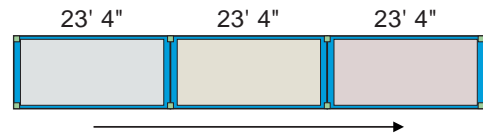
Traxle may be used in any truck weighing application, but is especially suited for variable weight loads and companies that operate trucks or truck/trailer combinations with similar axle configurations. In addition to the examples shown below, modules can be combined for use with pup trailers.



80' scale: three 23' 4" modules, one 10' module and ten weigh bars



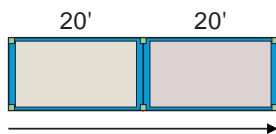
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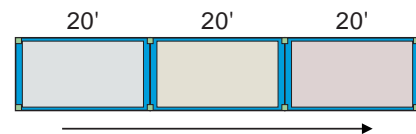
70' scale: three 23' 4" modules and eight weigh bars



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40' scale: two 20' modules and six weigh bars



60' scale: three 20' modules and eight weigh bars

- WEIGHT SENSORS
- STEERING AXLE MODULE
- DRIVE AXLE MODULE
- TRAILER AXLE MODULE

System Components



SensorComm™

SensorComm is a microprocessor-based digital J-Box that converts the analog signal from the scale's weight sensors into digital data that can be processed by the Model 1310 Indicator. One SensorComm can serve four sensors. Data is transmitted to the indicator over a serial cable or an optional fiber optic link. SensorComm is built to withstand the rigors of all-weather environments.

Like having a technician on-site 24/7

Microprocessor enables:

- Individual weight sensor monitoring
- Operator "System Warnings"
- Remote diagnostics



Model 1310 Programmable Indicator

The Model 1310 features a large illuminated dot matrix display. The display provides many HMI (Human Machine Interface) details including operator "Prompts" for quick setup and easy operation.

The Model 1310 can be set to display Traxle weights or to perform Truck In/Out calculations. The In/Out mode calculates and stores up to 1,000 completed transactions, maintains up to 4,000 tare weights and 500 different open transactions.

Both modes of operation provide a truck ID for reference and a transmission of information ready to be printed or captured by a computer.

Weigh-Tronix Scales

Steel or Concrete Deck

- **SteelBridge XT**
- **BridgeMont**
- **Portable**

Weigh-Tronix offers a wide range of premium-built truck scales in a variety of lengths, widths and capacities. Two types of deck construction are available: All-welded steel-sandwich construction or a concrete deck supported by a steel substructure and bottom deck plate. Some steel-deck models offer a galvanized option to maximize long-term durability.

For temporary installations, the perfect solution is a Weigh-Tronix portable truck scale.

Underlying every model is the rugged, durable Weigh-Tronix designed Weigh Bar® weight sensor. The Weigh Bar consistently, accurately captures the load stress and withstands the everyday normal environmental hazards, including jolts, moisture penetration, lightning and voltage surges. Nothing on the market offers greater reliability.

Specifications

SensorComm™ U.S. patent No. 5,750,937

NTEP Tested: 14° to 104°F (-10° to 40°C)

Operating Temperature: -40° to 140°F (-40° to 60°C)

Humidity: 0-90% relative, non-condensing

Enclosure: Stainless steel, NEMA 4X rating

EMI and lightning suppression

#02-018 legal for Trade Certificate of Conformance

Model 1310 Indicator

Excitation: Drives up to thirty-two 350-ohm weight sensors

Standard input and outputs:

Com 1: RS232, RS-485, SensorComm

Com 2: RS232, 20 mA current loop

Com 3: RS232, RS-485/422, SensorComm

Com 3: RS232, RS-485/422, SensorComm (one bi-directional signal per port)

4 set point I/O ports via OPTO 22 I/O modules

1 Analog scale input

PS/2 keyboard port

Agencies: NTEP Class III/IIIL: 10,000d CC#01-033 A1

Optional Fieldbus Network Interfaces: DeviceNet™, ProfiBus®, ControlNet™, InterBus, ModBus Plus, Ethernet 10/100 [ModBus TCP, TCP/IP (sockets), HTTP, SMTP, FTP, Ethernet/IP]

Available Options:

Multiple analog scale inputs, up to seven additional

Eight fully isolated, programmable analog outputs, selectable 4-20mA, 0-5VDC, 0-10VDC, 0-20mA, 0-24mA, ±5VDC, ±10VDC

Remote expanded control interface for TTL or solid state up to 64 OPTO 22 Generation 4 I/O Modules

PC/104 Compatible expansion bus (internal modem)

PC (AT) style alphanumeric keyboard

Memory expansion – 1, 4, 5, 8 MB

Audio output: Tone for key contact assurance or operational alarms

Display: 5" W x 1.33" H 240 x 64 dots cold cathode fluorescent backlit, white on blue

Time and Date: Battery protected real time clock is standard

Enclosure: Stainless steel wash down enclosure NEMA 4X

AUTHORIZED DISTRIBUTORS

Ask the experts. Avery Weigh-Tronix distributors are complete support centers, providing needs assessment, technical information, product sales and service. Their experience is a valuable resource that is readily available to you. We recommend you consult these knowledgeable industrial applications specialists for all of your weight measurement needs.

Please call us or visit
www.wtxweb.com
for your nearest
Weigh-Tronix distributor.

Truck Scales

SteelBridge Model IMXT:

Steel deck – heavy-duty

Capacities 80,000 - 200,000 lb, "r" factor 2.35, length 10' to 116'

SteelBridge Model FCXT:

Concrete deck – heavy-duty

Capacities 80,000 - 200,000 lb, "r" factor 2.35, length 10' to 116'

BridgeMont 75 BMS Series:

Steel deck – low traffic

Capacities 140,000 - 200,000 lb, "r" factor 1.76, length 47' to 80'

BridgeMont BMS Series:

Steel deck – normal traffic

Capacities 70,000 - 200,000 lb, "r" factor 1.76, length 10' to 116'

BridgeMont BMC Series:

Concrete deck – normal traffic

Capacities 70,000 - 200,000 lb, "r" factor 1.76, length 10' to 116'

BridgeMont XL BMS Series:

Steel deck – normal traffic

Capacities 70,000 - 200,000 lb, "r" factor 1.76, length 26' to 124'

BridgeMont XL BMC Series:

Concrete deck – normal traffic

Capacities 70,000 - 200,000 lb, "r" factor 1.76, length 26' to 124'

Portable Truck Scales

BMS-P:

Capacities 70,000 - 200,000 lb, "r" factor 1.76, length 20' to 100'

BMS DT-P:

Capacities 70,000 - 200,000 lb, "r" factor 2.06, length 24' to 93'

IMXT-P:

Capacities 80,000 - 200,000 lb, "r" factor 2.35, length 20' to 100'

All truck scale models are NTEP certified for total vehicle weights.



Capture axle weight and total truck weight

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