WEIGH-TRONIX®

The combination of SimulCast™ instrumentation and the QTLTSC legal for trade lift truck scale yields a valuable tool for the shipping industry.

• Save time
• Eradicate mistakes
• Add automation

American Trucking Assoc. Member

LEGAL FOR TRADE

QTLTSC with SimulCast™

QTLTSC is not just another lift truck scale

QTLTSC—It stands for QuickTach Lift Truck Scale, Certified. The QTLTSC is legal for trade. Its 0.1% accuracy is the product of Weigh Bar® weight sensors specifically designed for the system, a new summing assembly, and angle detection software that lets the QTLTSC perform like an accountant even on unlevel surfaces.

Manage shipping processes with legal for trade 0.1% accuracy, and never make an unnecessary trip to a remote floor scale.

The Weigh-Tronix QTLTSC pays back fast

Unloading trucks—Confirm that the quantities you ordered are the quantities you receive as you unload. No extra steps.

Loading trucks—Use the instant weight data to load evenly and legally. Avoid overload fines and unsafe operation.

Shipping—Verify the accuracy of your customers' estimated shipping weights. Document discrepancies. Correct the transfer charges when you find a different weight.

Manufacturing—Help track inventories and save steps as product flows between departments. Your forklift equipped with a QTLTSC will instantly document the weight of material as it is picked up for transport. No costly guess work; no extra trips to a remote floor scale.

Field serviceability

One of the high priorities in the design of the Weigh-Tronix Lift Truck Scale was that the scale should be field serviceable. An idled lift truck scale sitting in a repair shop six hundred miles away is not making you any money. It's a drain on your resources.

To accomplish their goal, designers chose not to use the traditional welded flexures to secure the double carriage scale. Instead, the Weigh Bar sensors link the front and back plates of the carriage assembly.

All system elements are designed for quick on-site service. Even the interface cable for the QTLTSC has quick disconnects; cables can be replaced in seconds or repaired in the field with cutting and splicing.

Many of the components, such as the angle detection and Weigh Bar summing assembly and indicator, can be field diagnosed and repaired or swapped out.

Independent Discrimination Compensation (IDC) adds versatility

A traditional problem with fork lift scales has been that any change in fork position affects accuracy of the readings. QTLTSC designers have met this challenge. A combination of carriage assembly design, angle detection mechanism and the Weigh Bar summing assembly provides the lift truck scale system with IDC or Independent Discrimination Compensation. The automatic system compensation allows the QTLTSC to provide 0.1% accuracy with changing fork positions, with wheels on unlevel surfaces, or with the mast tilted.
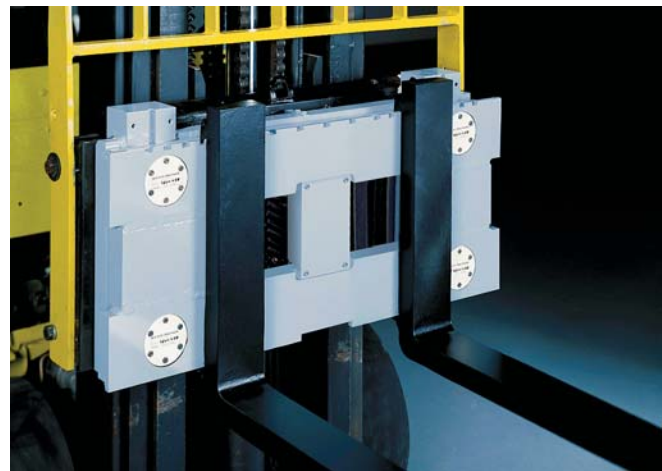
Weigh Bars link the front and back plates of the carriage assembly providing IDC and ending the need for welded flexures.
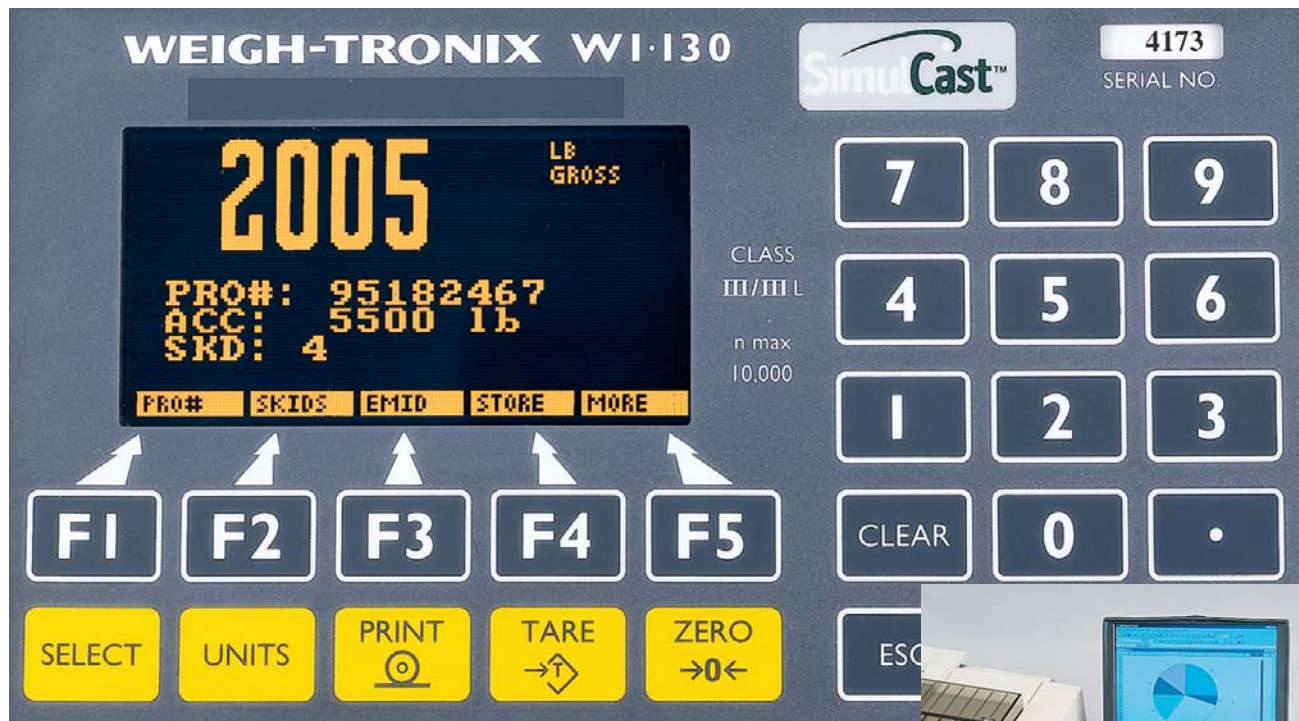
The SimulCast WI-130 Indicator simultaneously displays readings of weight, pro number, accumulated weight and accumulated number of skids.

SimulCast™ WI-130 Indicator—
The instrumentation developed specifically for shipping operations

Optional data collection equipment

Because of the special needs of the shipping industry, Weigh-Tronix developed a high performance indicator to streamline processes, simplify record keeping, and document billing information.

One display – Multiple values

The WI-130 SimulCast gets its name from its dot addressable graphic display which simultaneously displays readings of weight, pro number, accumulated weight and accumulated number of skids.

In addition, it has five soft keys that let operators rapidly switch between information entry fields such as pro number, number of skids, employee ID, "Store" function.

Accumulator function

The instrument's ability to accumulate data makes it popular with shippers. It has up to 750 memory locations for accumulating information by pro number. The instrument's "Store" button lets operators quickly store the actual weight lifted by the scale to the actively displayed pro number. (All data is battery protected.)

Automated data collection

With an optional bar code wand and an infrared transmitter receiver, you can automate data collection. Scan bar codes to simplify the entry of pro numbers or employee ID. SimulCast can even document results of periodic weight accuracy tests. After you have stored a day's worth of scale data and estimated information from the customer weight ticket, you can download information to a PC or printer via an infrared transceiver, RF

technology, or hard wire connection to an output port on the SimulCast.

Details, details, details

The SimulCast Indicator is the result of hundreds of right choices by Weigh-Tronix developers that add to its usefulness and life. It has a rugged NEMA 4X stainless steel enclosure. Its 1.6 x 3.2-inch dot addressable active display allows operators to easily read current weight, active pro number, accumulated weight and accumulated number of skids at a glance. Competitive models have only a single line display requiring operators to press multiple keys to view data. In addition, the SimulCast uses quick-connect ports to link with the power source, scale carriage input, optional bar code reader, printer output and infrared output.

Specifications— SimulCast™ WI-130 Indicator

Power input: 8-90 volts DC

Display:
1.6" H x 3.2" W electroluminescent dot graphic display (160 x 80 dot layout)
Simultaneously displays 0.6" high readings of weight, pro number, accumulated weight and accumulated number of skids

Operational keys:
Zero, Tare, Print, Units, Select, Enter, Escape, Clear, 0-9, decimal point and five soft keys labeled per selected operational routine
All keys provide users with audio acknowledgment upon activation

Operational annunciators:
Displayed symbols indicate motion, center of zero, unit of measure and more

Time and date:
Battery protected real time clock is included

Angle compensation:
Detects and automatically compensates for pitch and/or roll out of level weighing

Standard interface ports:
(all with quick disconnects)
Infrared communication port
RS-232 bar code reader port
RS-232 printer output
Scale carriage input
Power source input

Available options:
Bar code wand
Infrared transceiver

Operating environment:
14°F to 104°F - NTEP
(-10°C to +40°C)
-40°F to 140°F - Operational
(-40°C to +60°C)

Enclosure: Stainless steel enclosure

Dimensions:
7.25" H x 10" W x 4.5" D
(18.4 cm x 25.4 cm x 11.4 cm)

Weight: 14 lb, 6.3 kg

Specifications—Weigh-Tronix Weigh Bar®

Approvals:
Legal for Trade: Certificate of Conformance #95-093

Zero balance: ±0.10 mv/v

Non-linearity maximum: 0.03% of rated output

Hysteresis maximum: 0.03% of rated output

Temperature effect on output:
±0.0025% °C of rated output (-10 to +40°C)

Temperature effect on zero balance:
±1.70 x 10-7 volts per volt 5°C (-10 to +40°C)

Safe overload rating: 150% of capacity

Specifications—Weight summing and angle detection assembly

Enclosure:
Metal enclosure. Dust and water resistant. Electronic components surrounded by low modulus potting compound.

Environment: -40°C to 65°C

Angle sensors: .1 degree accuracy from 0-10 degrees

Angle sensor temperature coefficient: 0.008°/°C

Specifications—System

Approvals:
Legal for Trade: Certificate of Conformance #95-126
NTEP Class III at 1,000 divisions

System compatibility: ITA Class II and Class III carriages up to 10,000 lb

Overload protection:
Withstands up to 200% of full capacity applied any where up to 24" from frame and side loads up to 100% of full capacity.

WEIGH-TRONIX
Weighing Products & Systems