

DESCRIPTION

General

The Avery Weigh-Tronix QTLTSC Forklift Scale System is a, legal-for-trade weighing solution. The system includes a durable, front-mounted digital scale carriage with Weigh Bar[®] electronic weight sensors and viewing ports, as well as a choice of two in-cab instruments. The system allows operators to easily and quickly capture legal-for-trade weight data en route, without extra steps.

Seamless Compatibility

Simply attach the QTLTSC scale carriage to an existing Class III cleat-type forklift carriage and mount the FLI 225/425 instrument in a convenient driver location. This system allows seamless integration of weighing and data management into your operations without adding any extra steps or route changes.

Robust Design

The forklift scale carriage is comprised of two metal plates coupled together by four high capacity Weigh Bars.

- > Front loading safety factor of 29.5:1
- > Normal load safety factor of 7.5:1
- > Overload with no damage of 200%

The instrumentation is designed exclusively for the forklift vehicle. It incorporates design technologies to withstand the environmental and warehouse jolts common in forklift applications.

Highly Accurate

The Avery Weigh-Tronix QTLTSC system monitors the orientation of the scale and maintains accurate weight readings even if the forklift is on unlevel ground, the mast is tilted, or the pallet load is off-center. The forklift drivers are not required to jockey the mast or the position of the load on the scale.

The accurate weighing performance of the QTLTSC has been validated by NCWM (National Conference on Weights and Measures) to weigh legal-for-trade even when tilted:

- > 3 degrees side to side (5% grade)
- > 8 degrees forward to back

This electronic scale design has no mechanical flexures or springs to influence the weighing performance.

Data Management

The FLI 225 instrument provides a simple, no-nonsense solution through classic or enhanced operation for capturing weight and supplying it to a peripheral device.

The FLI 425 instrument simultaneously displays multiple fields of data, assisting the operator with a visual reference. Data can be stored on-board or instantly transmitted wirelessly to a local or global network.

QTLTSC III FORKLIFT SCALE Technical Specification

SCALE CARRIAGE

SCALE CANNIAGE	
Front and Back Plates Yield Strength	100,000 psi
Weigh Bar® Fasteners Yield Strength	160,000 psi
Weigh Bar Tensioners Yield Strength	130,000 psi
Mounting Hooks Yield Strength	59,000 psi
Scale Centering Pin Yield Strength	89,000 psi
Safety Factors	29.5:1 front loading, 7.5:1 normal loading, 300% no damage overloading
Weight Sensors	Four Avery Weigh-Tronix 2500 LB or 6000 LB Weigh Bars direct coupled, no flexures
Weight Summing	Assembly encapsulated
Cover Plates	Weigh Bar cabling protection
Wired Interface	Coiled cable extending to 20'
Finish	High grade powder paint
WEIGH BAR	
Туре	LTT 2.5k weight sensors (4) NTEP CC# 95-093, 5,000 LB. LTT 6k weight sensors (4) NTEP CC# 95-093, 10,000 LB
Metal Properties	AISI 4340 steel yield strength 140,000 psi
Zero Balance	\pm 0.10 mv/v
Non-Linearity Maximum	0.3% of rated output
Hysteresis Maximum	0.03% of rated output
Temperature Effect on Output	\pm 0.0025% °C of rated output (-10 to +40° C)
Temperature Effect on Zero Balance	\pm 1.70 x 10-7 volts per volt 5°C (-10 to +40° C)
Safe Overload Rating	150% of capacity
WEIGHT SUMMING AND AN	GLE DETECTION ASSEMBLY
Enclosure	Metal enclosure, circuitry encapsulated
Environment	Legal 14° to 104° F (-10° to +40° C), industrial -40° to +65° C
Angle Sensors	0.1 degree accuracy from 0-10 degrees
Angle Sensor Temperature Coefficient	0.008°/° C
SYSTEM	
Lifting Capacity	Reduced 12-14%
APPROVALS	
	NCWM Certificate of Conformance 95–126 Accuracy Class III, 5000 x 5 LB; 10,000 x 10 LB Compatible with ITA Class III, 20" high cleat type carriage FCC part 15B

ECTÁC UK 2862 CE

Туре	FLI 225 instrument NTEP CC# 07-091, category 3 FLI 425 instrument NTEP CC# 07-025, category 3	
Power Input	9 to36 vdc, 3.5 Amp, Inactive stand by mode	
Display	FLI 225 - High contrast backlit transflective LCD dot matrix. Custom designed font ¾" high digits. Classic and Expanded Operational Modes FLI 425 - 7" backlit multi colored touch screen TFI LCD display, 800 x 480 resolution. 1" high custom font weight values, adjustable contrast	
Operational Keys	FLI 225 - On/Off, Zero, Print, Select, Tare, F1-F4 FLI 425 - Hard keys On/Off, F1, Store, Zero, many touch activated keys	
Operational Images	 FLI 225 - Weight, LB/KG, Motion, Center of Zero, Weigh mode, Wireless carriage communication status, Operator status messages and Battery status of FLW 100 FLI 425 - Weight, LB/KG, Weigh mode, Motion, Center of Zero, Date/Time, Number of stored records, Pro Number, Actual Pieces, Accumulated Pieces, Employee ID, Accumulated Weight, Abort, Complete, Alpha Numeric entry screen, WiFi data radio link status, WiFi wireless carriage status, wireless scale carriage battery status, and multiple user messages including diagnostic management with predictive alerts 	
Angle Compensation	Detects and automatically compensates for out of level accurate weighing	
Design Platform	FLI 425 - Windows CE.NET®	
Communication Ports	FLI 225 – Two RS 232 serial ports FLI 425 – RS 232 serial, USB, Ethernet, Compact flash memory, Compact flash WiFi	
Operating Environment	Legal 14° to 104° F (-10° to $+40^\circ$ C), industrial -34° to $+65^\circ$ C	
Audio	FLI 425 - Internal speaker	
Enclosure	FLI 225 - Composite with tilt and swivel brackets, designed to IP65 FLI 425 - Cast aluminum with high grade powder paint. Soft surround wrap provides operator head protection. Tilt and swivel brackets, with vibration isolation	
Dimension	FLI 225 - 8.14"W x 5.19"H x 4.03"D includes mounting bracket FLI 425 - 10.75"W x 7.44"H x 4.5"D includes mounting bracket	
Weight	FLI 225 - 4 LB / 1.8 KG FLI 425 - 7 LB / 3.2 KG	
Options	FLI 225 - FLP 100 power conditioner 24 to 72 vdc, FLW 100 wireless instrument to scale, barcode scanner, RM 100 Bluetooth®, Data management software FLI 425 - FLP 100 power conditioner 24 to 72 vdc, FLW 100 wireless instrument to scale, barcode scanner, RM 100 Bluetooth®, Compact flash WiFi 802.11b/g, Compact memory	

FLI 225 AND FLI 425 INSTRUMENTS

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