The Avery Weigh-Tronix FLSC 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 "clear-view" open centre area, 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 FLSC 2500 kg scale carriage to an existing Class II 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 300%
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 FLSC system monitors the orientation of the scale and maintains accurate weight readings even if the forklift is on uneven ground, the mast is tilted, or the pallet load is off-centre. The forklift drivers are not required to jockey the mast or the position of the load on the scale.

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.
**SPECIFICATIONS**

### Scale Carriage
- **Front and back plates yield strength**: 300 N/mm² (43,500 psi)
- **Weigh Bar® fasteners yield strength**: 1100 N/mm² (160,000 psi)
- **Weigh Bar tensioners yield strength**: 1035 N/mm² (150,000 psi)
- **Mounting hooks yield strength**: 300 N/mm² (43,500 psi)
- **Scale spring loaded centering pin yield strength**: 614 N/mm² (89,000 psi)
- **Safety factors**: 29.5:1 front loading, 7.5:1 normal loading, 300% no damage overloading
- **View port**: Continuous 152 mm x 527 mm (6" x 20 ¾") nominal
- **Weight sensors**: Four Avery Weigh-Tronix 2500 lb Weigh Bars
direct coupled, no flexures
- **Weight summing**: Digital assembly encapsulated
- **Cover plates**: Weigh Bar cabling protection
- **Wired interface**: Coiled cable extending to 6100 mm (20’)
- **Wireless cable interface**: Optional
- **Finish**: High grade powder paint

### Digital Weight Summing and Angle Detection Assembly
- **Type**: FLI 100 digital junction box NTEP CC# 06-096
- **Enclosure**: Metal enclosure, circuitry encapsulated
- **Environment**: EU legal-for-trade -10° to +40° C (14° to 104° F), Non-legal -34° to +65° C
- **Angle sensors**: 0.1 degree accuracy from 0-10 degrees
- **Angle sensor temperature coefficient**: 0.008%/° C
- **Options**: FLW 100 wireless communications with scale carriage battery and instrument receiver, (battery life: continuously active 168 hours, active 8 hours/day 21 days before recharging, only eight hours for total recharge, external battery charger), EU legal-for-trade -10° to +40° C (14° to 104° F), Non-legal -20° to +65° C

### System
- **Lifting capacity reduced 12-16%**
- **Listings**: EU Trade Type Approval Certificate No. UK2862
  - Accuracy Class III 2500 kg x 2 kg (Non-Approved 2500 kg x 1 kg)
  - CE Marked

### FLI 225 Instrument
- **Type**: FLI 225 instrument NTEP CC# 07-091, category 3
- **Power input**: 9 to 36 vdc, 3.5 Amp, Inactive stand by mode
- **Display**: High contrast backlit transflective LCD dot matrix
- **Operational keys**: On/Off, Zero, Print, Select, Tare, F1-F4
- **Operational images**: Weight, kg/lb, Motion, Centre of Zero, Weigh mode, Wireless carriage communication status, Operator status messages and battery status of FLW 100
- **Angle compensation**: Detects and automatically compensates for out of level accurate weighing
- **Communication ports**: Two RS 232 serial ports
- **Operating environment**: EU legal-for-trade -10° to +40° C (14° to 104° F), Non-legal -34° to +65° C
- **Enclosure**: Composite with tilt and swivel brackets, designed to IP67
- **Dimensions**: W 207 mm x H 132 mm x D 102 mm includes mounting bracket
- **Weight**: 1.8 kg / 4 lb
- **Options**: FLP 100 power conditioner 24 to 72 vdc, FLW 100 wireless instrument to scale, barcode scanner, RF/WiFi Module, RM 100 Bluetooth®, printer

### FLI 425 Instrument
- **Type**: FLI 425 instrument NTEP CC# 07-025, category 3
- **Power input**: 9 to 36 vdc, 3.5 Amp, Inactive stand by mode
- **Display**: 7” backlit multi colored touch screen TFT LCD display, 800 x 480 resolution
  - 1” high custom font weight values, adjustable contrast
- **Operational keys**: Hard keys On/Off, F1, Store, Zero, many touch activated keys
- **Operational**: Weight, kg/lb, Weigh mode, Motion, Centre 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, multiple user messages including diagnostic management with predictive alerts and internal 32,000 transaction record including audit viewer.
- **Design platform**: Windows CE.net®
- **Angle compensation**: Detects and automatically compensates for out of level accurate weighing
- **Communication ports**: RS 232 serial, USB, Ethernet, Compact flash memory, Compact flash WiFi
- **Audio**: Internal speaker
- **Operating environment**: EU legal-for-trade -10° to +40° C (14° to 104° F), Non-legal -34° to +65° C
- **Enclosure**: Cast aluminum with high grade powder paint
- **Dimensions**: W 273 mm x H 189 mm x D 114 mm includes mounting bracket
- **Weight**: 3.2 kg / 7 lb
- **Options**: FLP 100 power conditioner 24 to 72 vdc, FLW 100 wireless instrument to scale, barcode scanner, RF/WiFi module, RM 100 Bluetooth, Compact flash WiFi 2.4GHz, Compact memory

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