

LO-TRAC® 300

LOW-SPEED WEIGH-IN-MOTION AND AXLE-BY-AXLE STATIC WEIGHING SYSTEM



OVERVIEW

The LO-TRAC® 300 system is a multi-function vehicle axle weighing system. It provides a highly accurate means of measuring axle and gross vehicle weights either statically or dynamically to help:

- Enforce vehicle weight limits for government authorities
- Prevent overload for transportation companies

The fully configurable LO-TRAC 300 can be supplied as a basic control unit interfacing to the Q-Free Axle Weighbeam WB40L. It provides axle weight and gross vehicle weight data with the option to supply additional interfaces to provide full vehicle weight enforcement functions.

When a desktop computer is connected, LO-WEIGH 100 Windows® software:

- Provides a graphical interface to the operator
- Prints user-specified weight tickets
- Records data with report generation

Piezo-electric and induction loop sensor connections allow for accurate vehicle classification and automatic traffic signal control. The design of the LO-TRAC 300 enables easy system upgrades.

BENEFITS

- Measure axle and gross vehicle weight statically or dynamically
- Enforce vehicle weight limits and prevent overloaded vehicle transports
- Utilize LO-WEIGH 100 Windows® to provide a user-friendly graphical interface and data reporting
- Configure multiple interfaces for traffic light control, over-height detection, and external weight display



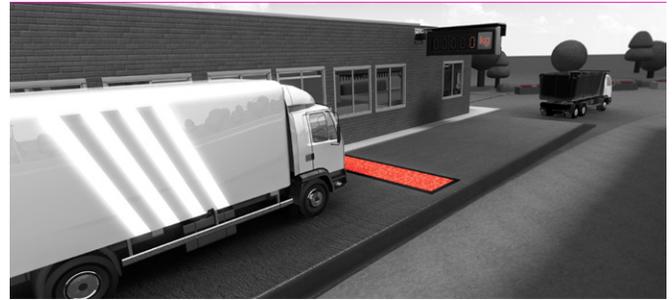
STATIC OR
DYNAMIC
VEHICLE WEIGHT



HIGHLY
ACCURATE
CLASSIFICATION

OPERATIONAL FEATURES

- Vehicle classification with automatic comparison to predetermined axle and gross vehicle weight limits
- Vehicle speed and change of speed check measurement to ensure accurate weight results
- Configurable alarm outputs
- Built-in display and keypad for system configuration
- Key switch for calibration
- System configuration to provide multiple interfaces for traffic light control, over-height detection, and external weight display (RS-485)



ACCURACY AND CONFIGURATIONS

ACCURACY DATA (WIM AND STATIC)

Gross vehicle weight	± 2%
Individual axle weight	± 2%
Group axle weight	± 2%
Block weight	± 10 kg / ± 22.05 lb
Speed	± 5%
Speed range	1 - 16 kph, 0.62 - 9.94 mph

Note: vehicle and axle weight accuracy is dependent upon speed limitation to 5kph/3mph and site construction in accordance with Q-Free specifications.

CLASSIFICATION ACCURACY

Rigid HGV	± 99%
Articulated HGV	± 99%
Draw-bar trailers	± 99%

EXTERNALLY INSTALLED ITEMS

The following items are dependent upon configuration:

- Traffic signals & barriers
- Displays
 - External weight display
 - Message sign boards
- Sensors
 - Weighbeam
 - Induction loop
 - Piezo-electric sensors
 - Vehicle over-height detection

EASY SYSTEM UPGRADES

The LO-TRAC 300 enables easy system upgrades, such as:

- 2 I/O interfaces providing up to 4 OPTO outputs (e.g. traffic signal relays) and 4 OPTO inputs (e.g. height detector)
 - 3 COMS ports for printer, PC connection, external weight display, or vehicle height detection
- Slave processor module with inputs for:
- 4 axle-detecting piezo sensors
 - 8 vehicle-detecting inductive loop sensors
 - Dedicated operator control unit (OCU)

TECHNICAL SPECIFICATIONS

Power supply:	85 - 264V AC @ 47-440Hz
Operating temperature:	-4°F to +149°F (-20°C to +65°C)
Interface:	4x4 keypad 4 x 20 LCD set-up menu
Memory:	8MB flash non-volatile
Input/Output ports:	RS-232 (OCU or printer) USB (PC) RS-232/RS-485 (External sign) Six dry contact ports
Lighting and transient protection:	Mains supply: Furse Weighbeam: WBTP PCB Amplifier: AMPPTP PCB