

Automatic lift truck check weighing with real time vehicle utilisation visual reporting

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Responding to the lift truck industry's request for a simple and economical lift truck on-board check weighing/overload safety readout that can be used in any material handling operation and will operate in severe working environment, Integrated Visual Data Technology Inc. of Toronto, Canada, has developed the ED2-Series, fully automatic SkidWeigh system.



The most popular application of this system is the freight weight verification of pallet weights within the shipping departments. Another application having very favourable ROI is the freight weight verification on loading docks within the transportation industry. The transportation loading dock lift trucks equipped with the SkidWeigh will recoup the underestimated freight weight revenue that otherwise will slip through the system unnoticed.

The ED2-Series SkidWeigh is the only forklift on-board check weighing system that is found to be installed in multiple quantities within the same company.

Features:

- Low installed cost;
- Virtually maintenance free;
- No operator training required;
- Fully automatic;
- Simple calibration with known load weight;
- Operating voltage from 12V to 55V DC;
- Can be moved from one vehicle to another;
- Will not reduce lift truck lift capacity;
- Can be installed by a local lift truck service technician or the end user mechanic;
- Resistant to industrial environments;
- Field serviceable;
- Wide range, check weighing capacity up to 50,000kg;
- Operating temperature ranging from -40°C to +85°C;
- Accurate to +/- 0.5 to 1% of vehicle lift capacity;
- On-board printer capability, optional;
- Accumulative weights capability, optional;

- Overload strobe light warning, optional;
- Dual weighing channel capability, optional.

ED2-400-01 Series SkidWeigh Kit - Operation and Installation

The unit of measurement for the vehicle under utilisation factor is the software algorithm and onboard calculations expressing driving loaded, unloaded, lift times, number of lifts, specific events and the load weight values against the lift truck operator presence time. The current status of the vehicle utilisation is shown to the lift truck operator all the time. Visual pre-warning to the operator is also shown on LED display as a time out in seconds when vehicle utilisation is getting close to the under utilisation factor value.

Every time a skid load is picked up the increase in the hydraulic pressure in vehicle lifting circuit will automatically activate the “weighing cycle at sample rate of 1,600 readings per second” and convert it to a load weight measurement that is visually presented to the operator via a five digit large display.

The ED2-400-01 Series SkidWeigh system can be easily installed and calibrated by a local lift truck dealer technician or the end user’s lift truck mechanic.

Benefits

The ED2-400-01 Series SkidWeigh system is the industry’s only solution that automatically transforms vehicle usage pattern data into meaningful information in real time reporting. The fact that all of the lift truck operator’s performance is visible right on the vehicle, all the time is in itself a means of improved vehicle utilisation by 25% to 30% minimum without any analysis.