

# SkidWeigh

**ED2-LFC-SLL Series**

Forklift On-board Check Weighing System

**Automatic Check Weighing with Overload Warning for Large Lifting Capacity Vehicles Shown in %**

The **ED2-LFC-SLL Series SkidWeigh** system is general application, heavy duty, fully automatic microprocessor electronic device that measures the load weight and provides visual overload warning to the operator. The system can be installed on any forklift regardless of the vehicle make, model or operating voltage with the maximum lifting capacity of up to 50,000 kg or lbs.

## Load Weight Verification

Every time a skid load is picked up, the increase in hydraulic pressure on the vehicle will automatically activate the "Weighing cycle" and convert it to a load weight measurement that is visually presented to the operator via a five digits LED display.



## Review for Management

The loads moved by a typical material handling vehicle comes in a variety of different shapes, physical sizes and weights.

The majority of the forklift operators will experience some difficulties with problems relating to the theoretical forklift lifting capacity as indicated on the manufacturer's ID plate and unknown load weights that are handled within the material handling facility. When the load weight is not clearly marked or not known and they are moved and lifted to different lifting heights, there is a danger to the vehicle stability.

## Safety

In addition to unknown load weight, vehicle travel speeds, braking, mast position, floor condition and turning radius that can not be easily judged will have a substantial effect on the load center of gravity that might have moved outside of the "Stability Triangle" without operator knowledge. It is well known that this can result in the possibility of the vehicle tipping which may cause damage to the goods, equipment as well injuries to the forklift operator.

## Overloading of Racks and Shelving

It's important to know the load weight you are handling and lifting to avoid overloading of the vehicle and storage racks designed for certain weight capacity.

Generally this is not a problem when you are constantly working with the same kind of products. However in the real world operational environment you could encounter problems when you have to move and lift "Unknown loads", specially a "general freight".

## Benefits

Increased productivity, operator safety with automatic load weight verification by removing the movement between floor scale and your material handling operational activity.



# ED2 SkidWeigh Series

Lift Truck On-board Weighing Systems



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The **ED2 SkidWeigh** Series are general application, compact, heavy duty, fully automatic microprocessor electronic systems that measure the load weigh on any type of material handling vehicle regardless of the vehicle make, model, operating voltage or lifting capacity.

Every time a skid load is picked up the increase in hydraulic pressure on the vehicle lifting circuit will automatically activate the "load weighing cycle" at sample rate of 16000 readings per session and convert it to a load weight measurement that is visually presented to the operator via six digit large LED display.



Automatic Load Weight Indicator

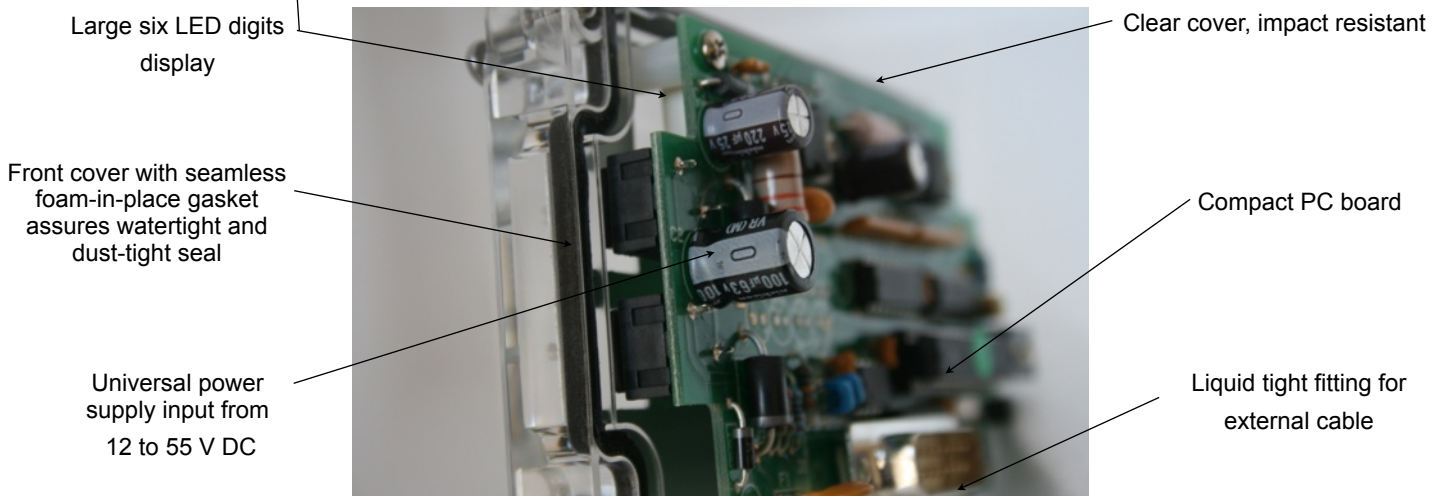


STANDARD PRODUCT SPECIFICATIONS



Technical Data	
<ul style="list-style-type: none"> <li>- Voltage from 12 to 55 V DC</li> <li>- Operating current 60mA</li> <li>- Technology, micro controller</li> <li>- RS-232 port</li> <li>- Readout type, large six LED digits</li> <li>- Bright red display intensity</li> <li>- Enclosure ABS, 120 x 80 x 55 mm</li> <li>- Weight, 0.6kg</li> <li>- Operating temperature -40 C / + 70 C</li> <li>- Pressure Transducer (Swiss Made)</li> <li>- Port connection, male 1/4"-18 NPT</li> <li>- Built in pressure snubber</li> <li>- NEMA 4X protection</li> <li>- Reverse polarity protection</li> <li>- Over voltage protection</li> <li>- Short circuit protection</li> <li>- Housing material, Stainless steel AISI 303</li> <li>- Weight 95 grams</li> <li>- Installation, unrestricted</li> <li>- Two buttons automatic system calibration</li> </ul>	<ul style="list-style-type: none"> <li>- Weighing accuracy, +/- 0.1 to 1% of vehicle lifting capacity</li> <li>- Weighing range up to 50000 lbs or kg</li> <li>- Single weighing channel</li> <li>- Lift-n-weigh load weighing procedure</li> <li>- Graduation 1, 5 and 10 (default 5)</li> </ul> <p><b>Optional Features</b></p> <ul style="list-style-type: none"> <li>- Two independent weighing channels</li> <li>- Total load weight</li> <li>- On-board printers</li> <li>- Under utilization monitoring &amp; reporting</li> <li>- Overload visual warning &amp; reporting</li> <li>- Impact detection visual warning</li> <li>- Engine idling monitoring</li> <li>- Safety check monitoring &amp; reporting</li> <li>- Load monitoring in % of lift capacity</li> <li>- Automatic zero weight re-calibration</li> <li>- Wireless web based reports</li> <li>- Enfora modem, FCC ID: MIVGSM0408</li> <li>- Relay, SPST for external warning</li> </ul>

COMPACT SIZE & HEAVY DUTY - DESIGNED FOR MATERIAL HANDLING VEHICLE



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# ED3 SkidWeigh Plus

Enhanced Series



Lift Truck Onboard Check Weighing Scales



# INDUSTRIAL TRUCK

## FREIGHT WEIGHT VERIFICATION & OPERATIONAL MANAGEMENT INFORMATION SYSTEMS

### ED3 Series



External Visual Warning



In the world of material handling, warehousing and logistics everything needs to keep moving.

A substantial amount of productivity can be hindered by losing fractions of operational hours due to downtime and reduced operator efficiency.

With a constant measurement of lift truck utilization on every vehicle, every minute, every hour, every day in real-time you will achieve a constant increase in percentage of vehicle hours utilized.

The fact that utilization factor is automatically calculated / updated and shown to the operator on LCD display all the time is usually in itself a means of improved vehicle utilization without any additional analysis.

Being able to track lift truck utilization in real-time by individual lift truck operator is the key to fleet optimization.

### SYSTEM APPLICATION

- LTL freight transportation
- Warehousing and distribution
- Manufacturing
- Agriculture
- Heavy industries
- Steel production facilities
- Lumber yards



**ED3**  
Standard LED display check weighing.



**ED3-SM**  
Standard LED display check weighing with visual / audio warning to the operator.



**ED3-AT**  
Standard LED display check weighing with accumulative load weight total.





**ED3-RT**

Standard LED display check weighing.



**ED3-TM**

Standard LED display check weighing.



**ED3-EP**

Standard LED display check weighing for electric pallet truck.

### ED3 SKIDWEIGH PLUS SERIES SOLUTIONS AT A GLANCE

ENHANCED ED3 SERIES LCD DISPLAY SKIDWEIGH PLUS SYSTEMS	MODEL
Basic check weighing system	ED3
Basic check weighing system with overload warning	ED3-SM
Basic check weighing system with accumulative load weight total	ED3-AT
Basic check weighing system for rough terrain lift trucks	ED3-RT
Basic check weighing system for truck / trailer mounted lift trucks	ED3-TM
Basic check weighing system for electric pallet trucks	ED3-EP



The ED3 SkidWeigh Plus Series system is a general application digital electronic device that measures the load weight on any type of material handling vehicle.

Every time a skid load is picked up the increase in hydraulic pressure on the vehicle lifting cylinder will automatically activate the “Weighing cycle” at sample rate of 16000 readings and convert it to a load weight measurement. The load weight will be displayed on LCD display.

Worldwide\* Patented Technology has exclusive software algorithm incorporated in the ED3 Series that allows a variety of vehicle operating conditions to be measured to suit the end user specific needs.

The optional wireless interface provides the real-time event notifications will give cost effective tool to assist material handling operations to improve fleet efficiency, safety and utilization.

OPERATION AND FUNCTIONS	ED3	ED3-SM	ED3-AT	ED3-RT	ED3-TM	ED3-EP
Operational voltage (0-55 VDC)	●	●	●	●	●	●
Check weighing onboard weighing scale	●	●	●	●	●	●
Accumulative load weight function	▲	▲	●	▲	▲	▲
Two independent weighing channels	▲	▲	▲	▲	▲	N/A
Overload visual warning LCD display	▲	●	▲	▲	▲	▲
Overload visual /audio warning LCD display	▲	▲	▲	▲	▲	▲
Graduation 1	▲	▲	▲	▲	▲	▲
Graduation 5	●	●	●	●	●	●
Graduation 10	▲	▲	▲	▲	▲	▲
Real time percentage load readout	▲	▲	N/A	▲	▲	N/A
Keypad for TARE function	▲	▲	▲	▲	▲	▲
Hydraulic accumulator software function	▲	▲	▲	▲	▲	N/A
Excessive engine idling visual warning	▲	▲	▲	▲	▲	N/A
Under utilization visual warning	▲	▲	▲	▲	▲	▲
Impact detection audio warning (indicator)	▲	▲	▲	▲	▲	▲
Impact detection visual warning (indicator)	▲	▲	▲	▲	▲	▲
Impact detection visual warning, external	▲	▲	▲	▲	▲	▲
Rough terrain lift truck operation	▲	▲	▲	●	N/A	N/A
Truck / trailer mounded lift truck operation	N/A	▲	▲	N/A	●	N/A
Cold storage lift truck operation	▲	▲	N/A	N/A	N/A	▲
Excessive engine idling visual warning / wireless reporting	▲	▲	▲	▲	▲	N/A
Under utilization visual warning / wireless reporting	▲	▲	▲	▲	▲	▲
Impact detection audio warning (indicator) / wireless reporting	▲	▲	▲	▲	▲	▲
Impact detection visual warning (indicator) / wireless reporting	▲	▲	▲	▲	▲	▲
Impact detection visual warning, external, with wireless reporting	▲	▲	▲	▲	▲	▲
Printouts of load weights	N/A	▲	▲	▲	▲	▲

OPERATION AND FUNCTIONS	ED3	ED3-SM	ED3-AT	ED3-RT	ED3-TM	ED3-EP
Parts count function	▲	▲	▲	▲	▲	▲
Operator ID#	▲	▲	▲	▲	▲	▲
Operator ID# memory default function	●	●	●	●	●	●
Safety check, start time, stop time and total time	▲	▲	▲	▲	▲	▲
Alphanumerical keys	▲	▲	▲	▲	▲	▲
English language	●	●	●	●	●	●
Simple calibration method by lifting empty and loaded forks	●	●	●	●	●	●
No coding during the set up procedures	●	●	●	●	●	●
Clear LCD messages of the operational status	●	●	●	●	●	●
French language	●	●	●	●	●	●
Customized company name on printed load tickets	●	●	●	●	●	●
Bluetooth module long range	▲	▲	▲	▲	▲	▲
Pressure transducer check function	●	●	●	●	●	●
Real-time clock	●	●	●	●	●	●
LCD showing accumulative total and current load weight	●	●	●	●	●	●
LCD display, low temperature -20 C to+70 C	▲	▲	▲	▲	▲	▲
Two relay output	●	●	●	●	●	●
Wash down enclosure	●	●	●	●	●	●
Web based reporting	▲	▲	▲	▲	▲	▲
Timestamp for events	●	●	●	●	●	●

● Standard function      ▲ Optional functions (Number of availability depends on ED3 SkidWeigh system)







*The information provided in this brochure contains only general descriptions or performance characteristics, which do not always apply as described in case of actual use or which may change as a result of further development of the products. This information is merely a technical description of the product. This information is not meant or intended to be a special guarantee for a particular application or particular durability. An obligation to provide the respective characteristics shall only exist if expressly agreed in the term of the sales contract. We reserve the right to make changes in availability as well as technical changes without prior notice.*

Load Handling Vehicle Monitoring System\*

USA 4,757,712; 4,949,263;5,285,020; Canada 1302566;1304479; Australia 598,376; 605,647; Germany 38811280.0: 3887754.6; EU 0293697; 0351453



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