

# Electronic Digital Indicator

# SkidWeigh

## ED2-SM-OAS Series

Forklift On-board Check Weighing System

### Automatic Check Weighing with Overload Warning

(External Relay Contacts or Audio Buzzer for Overload Warning)

The **ED2-SM 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.



## Installation

The **ED2-SM-OAS Series SkidWeigh** system can be easily installed and calibrated by a local lift truck dealer technician or the end user's lift truck mechanic.

The installed system is calibrated with known skid load weights on the forks.

*Two button automatic calibration procedures are done by lifting the empty and loaded forks.*



**Typical Installation of the ED2 Series Pressure Transducer in Lifting Hydraulic Circuit**



## Technical Data

### Electrical

- Voltage 12 to 55 V DC
- Current: Operating 30 mA

### Environmental

- Operating temperature  $-40^{\circ}\text{C}$  to  $+70^{\circ}\text{C}$
- Water, dust and corrosion resistant, 4X protection

### Physical

- 120 x 80 x 55 mm, polycarbonate enclosure

### Technology

- Micro Controller

### Pressure Transducer

- Port connection, male thread 1/4"-18 NPT

- Proof pressure, 2.5 x range or 6,000 PSI
- Built-in pressure snubber
- Environmental: NEMA 4X
- Reverse polarity protection
- Over voltage protection
- Short circuit protection
- Housing material, Stainless steel, (AISI 303)
- Weight 95 grams
- Installation, unrestricted

### System Check Weighing Accuracy

+/- .5% to 1% of lift truck lifting capacity

### Mounting Bracket

- Adjustable mounting bracket included

### LED Display Indicator

- Readout type, large six LED digits
- Readout range 50,000 kg or pounds
- Bright red display intensity
- Operating humidity range, 0-95% R.H



**Your Local Forklift Dealer**