PNEURIDE

# LOADSAFE®

## OVERLOAD DETECTION SYSTEM

**LOADSAFE** is a low cost overload detection system designed for light commercial vehicles up to 7.5T GVW and will provide the driver of a vehicle with key information about the load being carried.

- **WARNS AGAINST OVERLOADING**
- **RECORDS OVERLOAD OCCURENCES**
- **IMPROVES DRIVER SAFETY**
- **REDUCES EMPLOYER RISK**
- **AIDS FLEET OPTIMISATION**
- **INDICATES PAYLOAD REMAINING**

LOADSAFE involves installing suspension height measurement censors between the axle and the chassis of the vehicle. When you add load onto the vehicle the suspension will deflect. The LOADSAFE system will accurately measure the amount of spring deflection. Following a calibration procedure we can use this measurement to give a direct indication of the load being carried by the vehicle.

In the basic system the load is displayed visually by a separate set of LED's for the front axle, rear axle and the GVW. As more load is added more LED's will illuminate. If any of the axles or the whole vehicle is overlooked a red LED illuminates and an audible alarm sounds giving a clear warning to the driver to take action.

An upgrade to a wireless display is also available given a direct numerical measurement of the load being carried, the payload remaining and will provide additional security features. This unit can be hand carried whilst loading is taking place ensuring the driver is always aware of the loading condition. This ensures your vehicles are loaded safely, legally and right first time.


## BASIC SYSTEM

The basic LOADSAFE system contains all the equipment necessary to monitor the load on the vehicle.

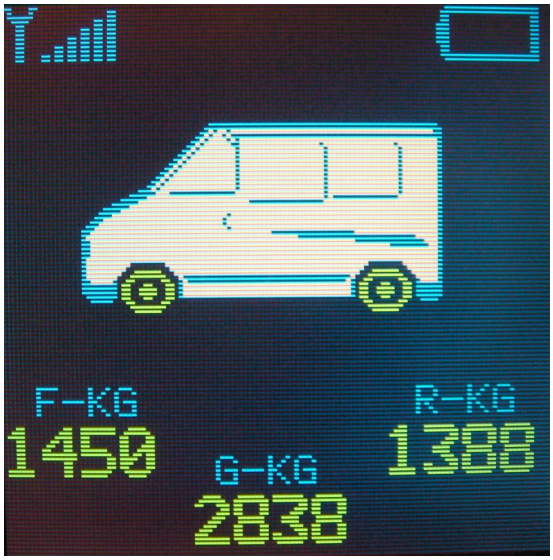
Included in the kit are; **Four height sensors, a wiring harness, sensor processing module, and the basic LED display panel.**

The height sensors are installed at each corner of the vehicle and are mounted using brackets designed specifically for each model so they can be installed where possible without the need for drilling or welding.

These height sensors are then connected by way of the electrical harness to the Sensor Processing Module. This module processes the information from the height sensors and with reference to the calibration data this information is output to the LED display.

The weight detail is output into the cab as a series of LED lights that can be set to come on at different weight limits. For example they can be set to turn the amber LED on at 95% of vehicle payload and the red LED comes on when at 100% or overloaded. When overloaded an audible alarm alerts the driver to take action.






## WIRELESS DISPLAY

The optional wireless display takes the same information from the sensor processing module, however now the information can be displayed graphically and with text.

The display will give either the load on the vehicle in Kg or as an alternative it can display the payload remaining. It also provides a clear visual indication with the text turning between green, amber and red depending on the load carried and the limits that are set.

When overloaded the wireless display also has an audible alarm to alert the driver to take action.

## INSTALLATION

Installation takes from 2-4 hours, the calibration procedure involves placing the vehicle on weighing pads. We then lead the vehicle and calibrate the height sensor positions relative to the load being carried away.

# LOADSAFE SPECIFICATION

**Measurement Range**

2000kg to GVW

**Warning**

>90% GVW or customer specific

**Overload Setting**

>100% GVW or customer specific

**Accuracy**

+/- 3%

**Power Supply**

12v or 24v

**Standby Current**

<1ma

**Wireless Upgrade**

Graphic display 132 x 132 pixels

**Wireless Upgrade**

Graphic display screen size 50 x 50 mm

**Wireless Upgrade**

Battery Life 8 hours—in cab charger supplies

**Warranty**

Optional 36 months—hassle free includes installation and calibration,

Standard warranty 12 months

**Calibration Frequency**

Recommended annually

**Installation Time**

4 hours

**Vehicle Suitability**

All light commercial vehicles—non air suspension

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