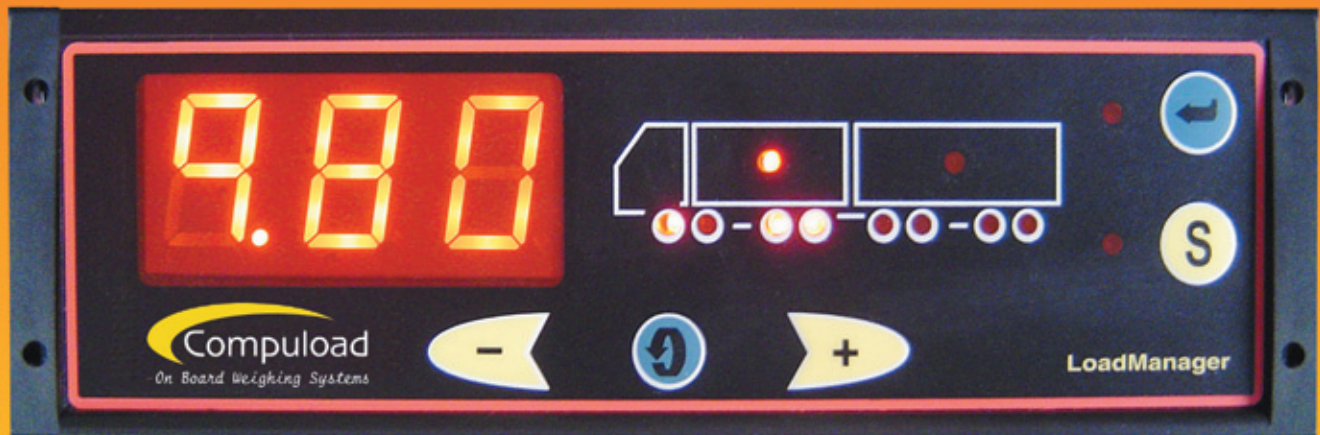


# Compuload Load Manager



## Weighing System for Trucks

- ◆ Current combination GWT \*
- ◆ Current load on all individual axles
- ◆ Payload per truck/trailer \*
- ◆ Alarm for exceeding GWT
- ◆ GWT per truck/trailer \*
- ◆ Payload for the entire combination \*
- ◆ Alarm for overload on individual axles
- ◆ All weights displayed in tonnes

LoadManager display fits standard DIN "cut outs"



LoadManager uses the existing wiring for communication between LoadManager display and sensor boxes on trailers.

- ◆ Using a microprocessor and built-in memory, LoadManager calculates the current loads from the air pressure in the suspension system and display weights in three-digit values.
- ◆ The LoadManager On-Board weighing systems can be used on ALL types of vehicles with axles or axle groups equipped with air or steel spring suspension system for the steer axle.
- ◆ Due to the modular design, our products are flexible and can be individually adapted to most types of vehicles.

**... and ALARMS when limits are exceeded.**

LoadManager display offers 2 individually adjustable alarm levels. Alarm 1 is indicated by flashing diodes for the individual axle which has exceeded limits.

Alarms 2 switches on an internal electronic "relay" when the GWT for the vehicle are exceeded. This signal can be used as ON/OFF input for other units, for example an on-board computer.

LoadManager brings efficiency in transportation, helps avoiding fines and optimizes YOUR loading procedure.

**Air circuits and sensors**

On all vehicles you get optimal accuracy with two independent air inlets for each axle, one for each pneumatic circuits (right and left) per axle or axle group. LoadManager calculates the current load on each axle from two reference values LO and HI.

- ◆ Using a single SG sensor on a front axle typically offers you the same accuracy compared with an front axle with air suspension.
- ◆ For heavy load vehicles hydraulic sensors are also available.

**Options:**

LoadManager is exactly as flexible as your vehicle:

- ◆ Do you have a truck equipped with steel springs on front axle and air suspension on rear axles combined with a lift axle. No problem!
- ◆ Do you have a truck with 2 front axles equipped with steel springs and two rear axles divided in left hand and right hand air circuits? No problem!
- ◆ Do you want to couple a trailer or semitrailer on the above vehicles? No problem!
- ◆ Do you want to couple a low bed trailer equipped with hydraulic suspension on a truck equipped with air suspension? No problem!
- ◆ Do you want to swap from one trailer to another trailer? No problem!
- ◆ Individual calibration values are stored in the LoadManager unit on each vehicle.

**Associated units:**

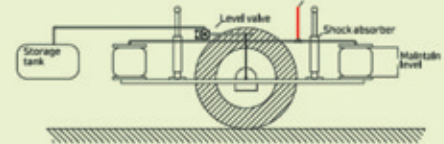
LoadManager RS-232 Printer or LoadManager Wireless hand held display.

**How does it work?**

The LoadManager weighing system, calculates the actual load from the linearity between airbag pressure and load. Using 2 reference points (LO/HI values) the LoadManager system calculates the actual axle load to within 1-2% or better accuracy.

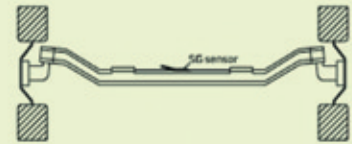
**The Basics - Airsuspension**

Airbag pressure is proportional with the load on the axle. Leveling valves regulates the air volume in the airbag, so that ride height remains constant.



**Mechanical suspension**

Mechanical suspension is common on many trucks. The SG sensor is mounted directly on the axle beam or on the springs. Accuracy is the same as air suspension sensors.



**Technical Specifications**

Supply voltage	10...30 volt direct current
Current consumption	Max. 90 mA
Alarm 1	Flashing display
Alarm 2	output open collector NPN Max. 0.2 A/ 50 VDC
Display	Three-digits 7-segment LED Character height 20.3mm
Measuring accuracy	2% of maximum load at 0°C - +50°C
Air connection	Quick release connection 6mm hose
Maximum pressure	15.5 bar (225 psi)
Operating	Pressure range 0 to 10.5 bar
SG Sensor	0-20 mA input
On-board computer	RS-232 serial
Printer	RS-232 serial
Device bus	Power line communication
Operating temperature	-25°C... + 70°C
Storage temperature	-40°C .. +70°C
Dimensions	182 x 53 x 75 mm
Weight approx.	550 g
Approval	CE and e1



**1800 285 277**