



Cabin Set includes:

Kimax 1 cabin 2 sensors Part number 10001

1 x display unit, cabir

2 x air pressure throttle dia. 6mn

Kimax 1 cabin 1 sensor Part number 10003

1 x display unit, cabii

1 v angle fittin

1 x air pressure throttle dia. 6mn

1 x T-fitting dia. 8mm / 6mm / 8mn

Cabin version - for driver's cab

Intended for use in driver's cab: The Kimax 1 display unit is supplied with a mount for simple installation on the dashboard.

The scale you take with you ...

Kimax 1, the axle load measuring unit for economical and convenient supervision of axle loads on vehicles, trailers and semitrailers equipped with a pneumatic suspension system.

Using a microprocessor and built-in memory, Kimax 1 calculates the current axle loads from the current air pressure in the suspension system and displays this figure as a three-digit value.

The pressure sensors are located in the display making a compact unit to avoid external influences on the electronic components and sensors.

.... and warns when limits are exceeded

Kimax 1 has two separately adjustable alarm values. Alarm value 1 is indicated by a flashing display. Alarm value 2 switches in an internal relay. The relay signal can be used as ON/OFF input for another unit, for example an FM 200 on-board computer or a tachograph.

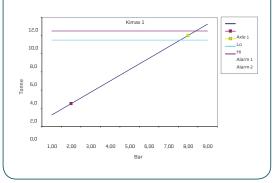
Kimax 1 helps to achieve economical transportation, avoid fines and simultaneously optimize the cargo weight.

Air circuits

On vehicles with two independent pneumatic suspension circuits per axle or axle group, the air pressure is measured for each pneumatic circuit with the 2-sensor version and Kimax 1 calculates the current axle load from these two values.

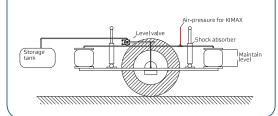
Axle load measurement

Kimax 1 uses the linear interrelationship of the air pressure in the suspension system and the axle load: By using two reference points (empty weight and weight at maximum load) and the currently measured air pressure, Kimax 1 calculates the current axle load with an accuracy of 2 % of the maximum load.



Basic operation

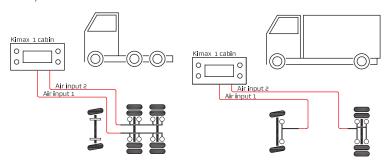
Depending on load of the vehichle, the level valve maintain a constant height of the chassis above ground surface by regulating the pressure in the bellows.



1 sensor most economical version In this version, the reading is measured only on one of the two axles.

2 sensors measuring accuracy in all positions

In this version (Kimax 1 standard version), you can calculate the reading for both sides of the axle. This provides additional measuring accuracy (arithmetic mean), particularly when the vehicle is inclined to one side.



Display of reading

KIMAX has a three-digit 7-segment LED display. The decimal points can be set at the second or third digit or removed completely depending on requirements.

Two modes of display can be selected:

- Automatic switch-off of display after approx. 2 minutes reading (recommended in cabins).
- Continuous display (recommended on trailer/semitrailer) (factory setting).

Optionals:

RS-232 serial output (option 1) Kimax 1 is available with a serial output in RS-232 format, offering you the displayed value in digital format intended for on-board computers.

Analogue output (option 2) Kimax 1 is available with an analog 0—5 V output corresponding to the displayed value you read on the unit. The output is intended for on-board computers or remote display purpose.

Serial printer output (option 4) Kimax 1 is available with output for most common serial printers.

Trailer version - for trailers/semitrailers Intended for use on trailers and semitrailers: The display unit is designed for mounting in a sturdy, waterproof stainless steel housing direct on the chassis.

Supply voltage	10 30 Volt direct current
Current consumption	Max. 90 mA (with relay active)
Relay output	Normally open contact
	max. 1 A/ 30 VDC
Display	Three-digits 7-segment LED,
	character height 20.3 mm
Accuracy	2 % of maximum load at
	0 °C - +50 °C
Air connection	Quick release connection
	6 mm air hose
Maximum pressure	15.5 bar (225 psi)
Operating pressure	range 0 to 10.5 bar
	(0 to 150 psi)
Operating temperature	2 −25 °C+70 °C
Storage temperature	-40 °C+70 °C
Dimensions	100 x 50 x 40 mm
Weight	approx. 240 g

= KIMAX 1

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Sense -Tech Weighing Systems are used all over the world. From the hectic harbours of Amsterdam to the dusty outback of Australia. And everywhere in between.

