

CABIN

 KIMAX 1 air



Cabin Set includes:

Kimax 1 cabin 2 air sensors

Part number 10001

- 1 x display cabin
- 1 x mounting bracket
- 2 x angle fittings
- 2 x air pressure throttle dia. 6mm
- 2 x T-fitting dia. Ø 8mm / 6mm / 8mm

Kimax 1 cabin 1 air sensor

Part number 10003

- 1 x display cabin
- 1 x mounting bracket
- 1 x angle fitting
- 1 x air pressure throttle dia. 6mm
- 1 x T-fitting dia. 8mm / 6mm / 8mm

Cabin version - for driver's cab

Intended for use in driver's cab: The Kimax 1 display 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 trucks equipped with a pneumatic suspension system for the rear axle(s).

Kimax 1 calculates the current axle load 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 levels. Exceeding alarm level 1 is indicated by a flashing display. Exceeding alarm level 2 switches in an internal relay. The relay signal can be used as ON/OFF input for another unit, for example an on-board computer a digital tachograph or an external lamp.

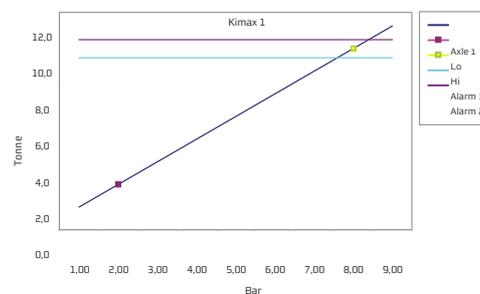
Kimax 1 assist you in achieving economical transportation, avoid fines and simultaneously optimize the cargo weight.

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.

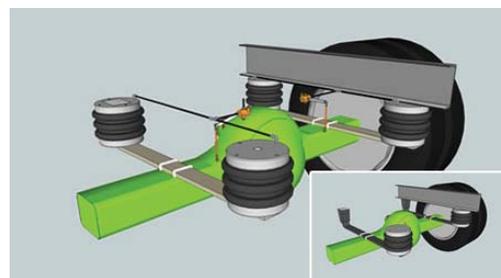
Axle load measurement

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.



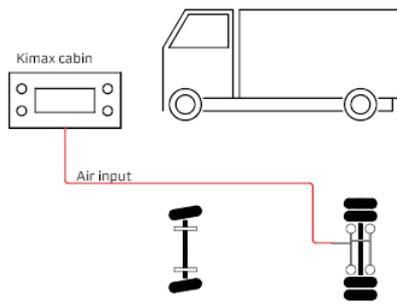
Basic operation

Depending on load of the vehicle, the level valve(s) maintain a constant height of the chassis above ground surface by regulating the pressure in the bellows. Trucks can be manufactured with one or two level valve(s) pro axle or axle group. In case of one level valve you get good results by using a Kimax with single air inlet, in case of two level valves, you get most accurate weighing by using a Kimax with a double air inlet.



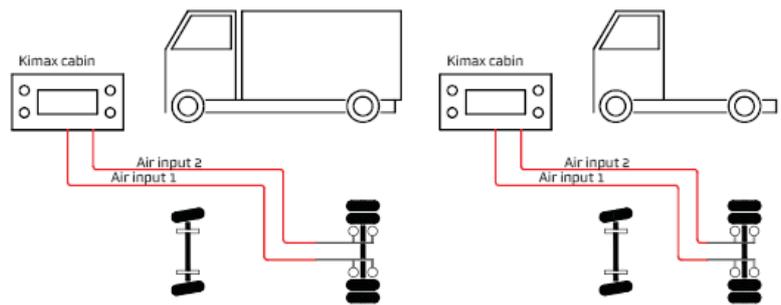
1 air inlet most economical version P/N 10003

In this version, the reading is measured only on the rear axle(s).



2 air inlets measuring accuracy in all positions P/N 10001

In this version (Kimax 1 standard version), the reading is calculated 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 readings (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 is designed for mounting in a sturdy, waterproof stainless steel housing direct on the chassis.

Other combination of truck and trailers:

- Visit www.kimax.com for more details and informations.

Technical Specifications

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	-25 °C...+70 °C
Storage temperature	-40 °C...+70 °C
Dimensions	100 x 50 x 40 mm
Weight	approx. 240 g
Approval	CE and E1

☐ KIMAX 1

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