

TRAILER

KIMAX 1 air



Set includes:

Kimax 1 trailer 2 sensors

Part number 10002

- 1 x display trailer
- 1 x sturdy stainless steel frame
- 2 x angle fittings
- 2 x air pressure throttle dia. 6mm
- 2 x T-fitting dia. Ø 8mm / 6mm / 8mm

Kimax 1 trailer 1 sensor

Part number 10004

- 1 x display trailer
- 1 x sturdy stainless steel frame
- 1 x angle fitting
- 1 x air pressure throttle dia. 6mm
- 1 x T-fitting dia. 8mm / 6mm / 8mm

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.

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.

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 values. 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 or an external lamp.

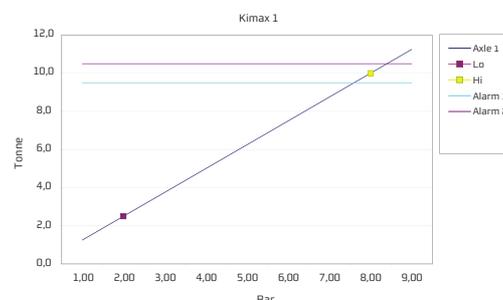
Kimax 1 helps to achieve economical transportation, avoid fines and simultaneously optimizes the cargo weight.

Air circuits

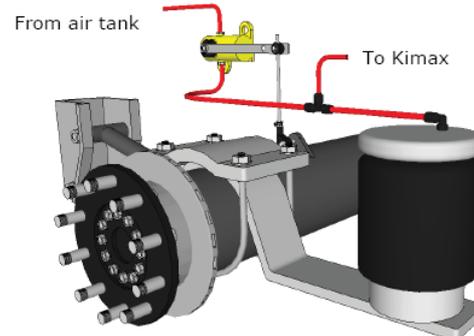
On vehicles with two independent pneumatic suspension circuits per axle or axle group, the air pressure is measured for each pneumatic circuit with the 2-sensor version and Kimax 1 calculates the current axle load from these two values.

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.

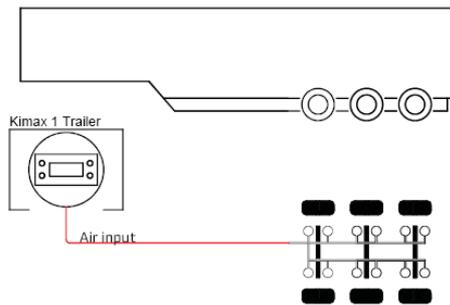


Depending on the load of the vehicle, the level valve maintains a constant height of the chassis above ground surface by regulating the height in the bellows.



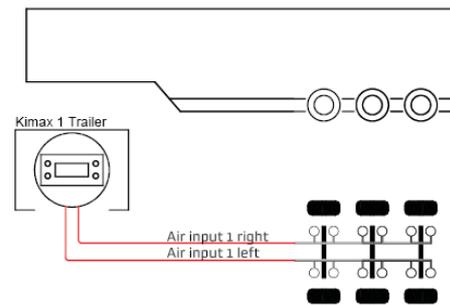
1 sensor most economical version P/N 10004

In this version, the reading is measured only on one of the two axles or as one axle group.



2 sensors measuring accuracy in all positions P/N 10002

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 after the first or second digit or removed completely depending on range of your measurements.

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).

Optional versions:

RS-232 serial output (option 1) The 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.

Analog output (option 2) The 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) The Kimax 1 is available with output for most common serial printers.

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

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	175 x 135 x 90 mm
Weight	approx. 1650 g
Approval	CE and E1

KIMAX 1

Kimax 1 and Kimax 2 are a series of high quality well proven on-board scales for use on trucks, buses and loading equipment. For detailed product selection guide please go to Kimax.com. Kimax 1 and Kimax 2 are registered trademarks owned by Sense-Tech Weighing Systems.

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.