



Description

With these portable and verifiable scales, you can measure the wheel and axle loads of a wide range of vehicles quickly and precisely. Our RWA 8.1.0 E wheel load scales are available for various nominal loads from 500 kg to 8t. They are accepted in accuracy class III in accordance with EN 45 501 and are approved for weighing operations in commercial and official use.

You can read the measured loads directly from a large LCD display on the scales. For ease-of-use and to ensure the accuracy of the test results, status information is displayed on five individual LEDs. Operation of the wheel load scales is via three push-buttons. Optionally, in applications where verification is not required, two scales can be connected using an additional cable so that the total load on an axle can be easily measured.

The scales are powered by rechargeable batteries, so that the transportable wheel load scales are suitable for mobile use, independently of a mains power supply. The scales can be used on any suitably firm and level subsurface.

Fields of application for the wheel load scales are road traffic vehicle inspections and vehicle design and production. They are suitable for use in agriculture and forestry, on construction sites and in waste disposal.

Features

- | Verifiable
- | Low self-weight
- | Shallow construction
- | Nominal loads 500/1000/2000/8000 kg
- | Functions:
Zero-setting, tare,
read out of gross and net value
- | Anti-slip rubber feet
- | Maintenance-free
- | Operates on standard rechargeable batteries
- | Can be combined for axle load weighing where verification is not required (optional)

Applications

- | Weighing operations and load checks
- | Determination of the load distribution
- | Setting up suspension/running gear
- | Vehicle approvals for new and modified models

Technical data

Type	Minimum load	Maximum load = Nominal load	Increment / Division e *	Accuracy according to EN 45501	Self-weight
RWA 8.1.0E/500	5 kg	500 kg	0.5 kg	±0.25 kg up to 25 kg ±0.5 kg up to 100 kg ±0.75 kg above 100 kg	17.5 kg
RWA 8.1.0E/1000	10 kg	1000 kg	1 kg	±0.5 kg up to 50 kg ±1 kg up to 200 kg ±1.5 kg above 200 kg	17.5 kg
RWA 8.1.0E/2000	20 kg	2000 kg	2 kg	±1 kg up to 100 kg ±2 kg up to 400 kg ±3 kg above 400 kg	17.5 kg
RWA 8.1.0E/8000	100 kg	8000 kg	10 kg	± 5 kg up to 500 kg ±10 kg up to 2000 kg ±15 kg above 2000 kg	20 kg

Verification capability
Supply

DIN EN 45501, accuracy class III
4 x NiCd or NiMh rechargeable batteries 1.2V/max. 2000 mAh,
charging via mains adapter 12V/1A

Operating temperature range

-10 °C to +40 °C

Storage temperature range

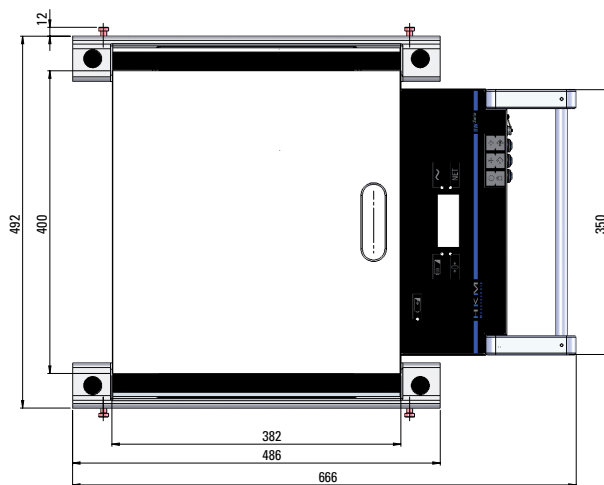
-30 °C to +70 °C

Protection class

IP 65

* higher increment / resolution is possible on request for use where official verification is not compulsory

Dimensions



Weighing area 382 mm x 400 mm
Weighing platform height 40 mm

Dimensions in mm

Display module features

- 8-digit LCD display
- Load display in kg or lbs
- 3 push-buttons for operation
- Menu-guided settings and inquiries
- Status LEDs for
 - low battery display
 - zero display
 - stability display
 - net display
 - battery charging display

Options

- Drive-on and drive-off ramps (460 mm x 180 mm)
- Dummy plates
- Cable to connect two scales for axle load measurement
- higher increment/resolution is possible for use where official verification is not compulsory

Statement from the HKM reference list for wheel load scales

Customer	Industry / Application
approx. 50 Aero technical Service companies	Aircraft maintenance
Asia MotorWorks, India	Automobile manufacturer, R&D
Bajaj Auto Ltd., India	Automobile manufacturer
BMW, VW, Daimler / Mercedes, Smart, Porsche, Opel, Ford, Toyota, Bugatti, Nissan - all in Germany	Automobile manufacturer
Bosch Automotive Product, China	Vehicle testing
Chamber of agriculture of Tyrol, Burgenland, Niederösterreich	Use in agriculture
Continental, Germany	Tire manufacturing and testing
DEKRA, DEKRA Motor sports, Germany	Vehicle inspection and certification
e-materials (m) sdn. Bhd., Malaysia	Vehicle testing
FAW R&D Center, China	Automobile manufacturer, R&D
Formula 3, GT-Masters, Porsche cup, ADAC-Masters	Reference scales from DMSB, German engine sports alliance
German Armed forces, Manching, Germany	Aircraft inspection
German Motor Work, Thailand	Car checking
Goodyear, Germany / Luxemburg	Tire manufacturing and testing
Integrated Systems Technology, Taiwan	Testing of vehicles
Institute of Nuclear Sciences, Srbija	Use in sciences
I.S.R.O. Satellite Centre, Government of India	Manufacture of satellite
Karsan Otomotiv, Turkey	Testing of vehicles, -admittance
Magna Education, Graz / Austria	Automobile manufacturer
Maruti Suzuki India	Automobile manufacturer
Mahindra Navistar Automotives, India	Automobile manufacturer, R&D
MAN, Germany, Turkey	MAN production line, Vehicle tests
Metz, Germany	Manufacturing of fire fighting vehicles
Nissan Ashok Leyland, India	Automobile manufacturer
Proton, Malaysia	Automobile manufacturer
The Automotive Research Association of India	Testing of vehicles, -admittance
Triple Faith Engineering, China	Automobile manufacturer
Tüv Automotive Germany and Austria	Vehicle inspection and certification
Workshop Solutions, Australia	Motor racing, test beds
Zeer Guangzhou, Dealer China	Production and testing of vehicles / Tyres
Around the world including the following states: Australia, Austria, Belgium, Bosnia and Herzegovina, Bulgaria, China, Croatia, Estonia, France, India, Iran, Ireland, Italy, Luxembourg, Malaysia, Netherlands, Nigeria, Poland, Russia, Sweden, Switzerland, Serbia, Spain, Thailand, Taiwan, Turkey, Vietnam	