

Wheel Load Scale WL 108



The next generation: wireless, battery life up to 180 hours, backlight display

The new state-of-the-art wheel load scale from HAENNI: Certified to OIML R76 class 4. Easy to carry due to its light weight. Without need of ramps and connectors, it is ready for use at any time. Due to fieldbus interface and the wireless option, less or no cables are needed. A must have for demanding professionals.

Application	Measurement of wheel and axle loads of vehicles with pneumatic tires
Platform Size	Standard size for accommodating easily a dual tire
Ranges	0...2 t, 0...3 t, 0...10 t, 0...15 t
Temp. range	-20...+60 °C
Accuracy	OIML No. 76 Class 4, optionally with HAENNI works test report or intended for official test
Execution	Corrosion resistant aluminium alloys, water resistant IP 65
Supply	Integrated rechargeable power source, for 180 h operation. Recharge (and operation) by 12V car battery or AC adapter
In- and output	Cable, Wireless
Display	LCD, 24 mm, graphic, with backlight
Electrical connection	Robust plug, watertight IEC 60130-10 5.5 mm / 2.1 mm
Weight	13.5 kg (0...2 t, 0...3 t) 16.5 kg (0...10 t, 0...15 t)
Platform height	19 mm (0...2 t, 0...3 t) 17 mm (0...10 t, 0...15 t)

Operation

Due to its light weight, the wheel load scale WL 108 is easy to transport and can be used at any time without the need of ramps.

For efficient measurements it is recommended to work with at least two units. Measurements should be made on firm and level ground. The scale is placed close in front of the wheel to be tested and the vehicle is driven onto the platform. The wheel load is indicated directly on the digital liquid crystal display.

With a connecting cable or wireless, up to 12 scales can be used as an axle or total load scale.

Accessories

For accessories as levelling mats, cables, pads for weighing point loads, carrying cases etc. refer to data sheet A8498.

Official Test

The wheel load scale WL 108 is tested and certified by OIML¹⁾ and by EC Type Approval.

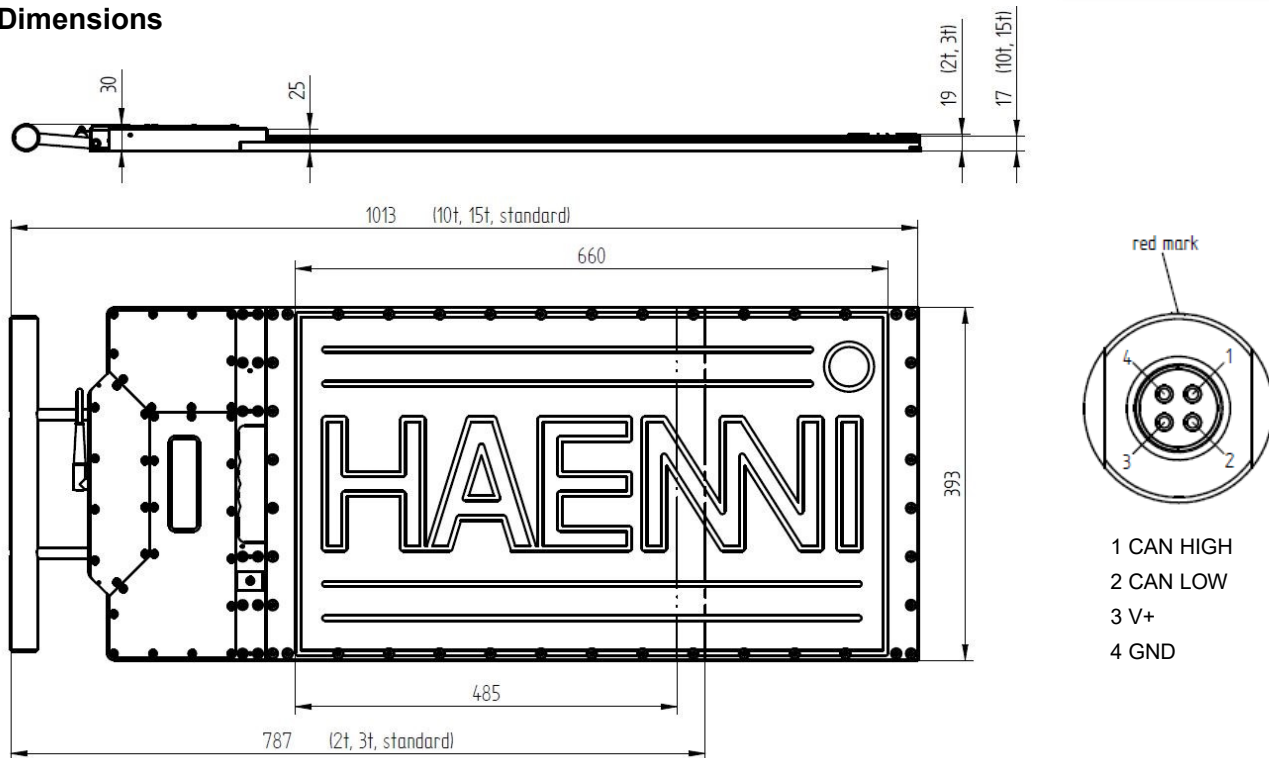
Selection Chart

Ordering example:	WL 108 / 4 1 1 . 1 1 1 /10Y/ ...
Temperature and Standard	- 20 ... + 60 °C 4 OIML No. 76 Cl. 4 1
Division	Standard 1 Smaller ³⁾ 3
Platform Size	Standard (small) 1
Connections	Cable (standard) 1 Wireless (+cable) 2
Ranges	0 ... 2 t 08Y 0 ... 3 t 19Y 0 ... 10 t 10Y 0 ... 15 t 20Y
Options	Heavy duty ground plate with rubber base 802 For official test. The ordering code is determined after the approval procedure



Wheel Load Scale WL 108

Dimensions



Technical Specification

Range	0...2 t		0...3 t	0...10 t		0..15 t
Division (standard / smaller ³⁾)	10 kg	5 kg	10 kg	50 kg	20 kg	50 kg
Accuracy on calibration	standard Division		± 5 kg (up to 500 kg) ± 10 kg (500 kg..2000 kg)	± 5 kg (up to 500 kg) ± 10 kg (500 kg..2000 kg) ± 15 kg (2000 kg..3000 kg)	± 25 kg (up to 2,5 t) ± 50 kg (2,5 t..10 t)	± 25 kg (up to 2,5 t) ± 50 kg (2,5 t..10 t) ± 75 kg (10 t..15 t)
	smaller Division		± 2,5 kg (up to 250 kg) ± 5 kg (250 kg..1000 kg) ± 7,5 kg (1000 kg...2000 kg)	—	± 10 kg (up to 1 t) ± 20 kg (1 t..4 t) ± 30 kg (4 t..10 t)	—
in operation	twice the tolerance at calibration					
Loading limit	2,5 t		3,75 t	12,5 t		18 t
Permissible load per area	6 kg/cm ²		9 kg/cm ²	12 kg/cm ²		15 kg/cm ²
Loading limit per area	12 kg/cm ²		18 kg/cm ²	24 kg/cm ²		30 kg/cm ²
Operating temperature	-20...+60 °C		-20...+60 °C			
Storage temperature	-30 +60 °C					
Electromagnetic susceptibility	OIML Nr. 76 ¹⁾					
Zero tracking, test etc..	automatic according OIML Nr. 76 ¹⁾					
Type of protection (ICE 144)	IP 65					
Overrunable	completely overrunable incl. cable					
Operating site	Firm and level ground, max. 10 mm bend through, max. 5% slope (≈ 3°)					
Active surface	in driving direction	345 mm		380 (12 kg/cm ^{2,2)} 393 (6 kg/cm ^{2,2)}	380 (15 kg/cm ^{2,2)} 393 (6 kg/cm ^{2,2)}	
	across to driving dir.	see sketch				
Over all dimensions	see sketch					
Power supply	Integrated battery for 180 h service ⁴⁾ Recharge (12 - 24) and operation (5 - 12 V) from 12V car battery or AC adapter					

1) OIML is the abbreviation for Organisation Internationale de Métrologie Légale.

2) In operation the complete surface may be used, because the ground pressure in the marginal area of the tyre foot print does not exceed 6 kg/cm².

3) The smaller division should be chosen for specific applications only. In most applications the standard division is the better choice. Refer also to paper P 1196

4) Minimum service hours without using optional wireless and backlight. Service hours with wireless: min 120h; Service hours with wireless and backlight: min 60h

