Pure Precision.

HAENNI
A Baumer Company

MDT

Wheel Load Scale WL 108

- Robustness
- High performance and endurance
- For demanding professionals
- Unique Swiss technology

Swiss Quality

www.haenni-scales.com

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	Aluminium alloys, water resistant IP 65 (IEC 144).
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 back-light
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. Up to 125 scales can be connected serially to a separate processing unit or to a personal computer.

Accessories

For accessories as levelling mats, cables, pads for weighing point loads, carrying cases etc. refer to data sheet W9.100.

Official Test

The wheel load scale WL 108 is tested and certified by OIML[1)] and by EC Type Approval.

Selection Chart

Ordering example:		WL 108 /	4	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								

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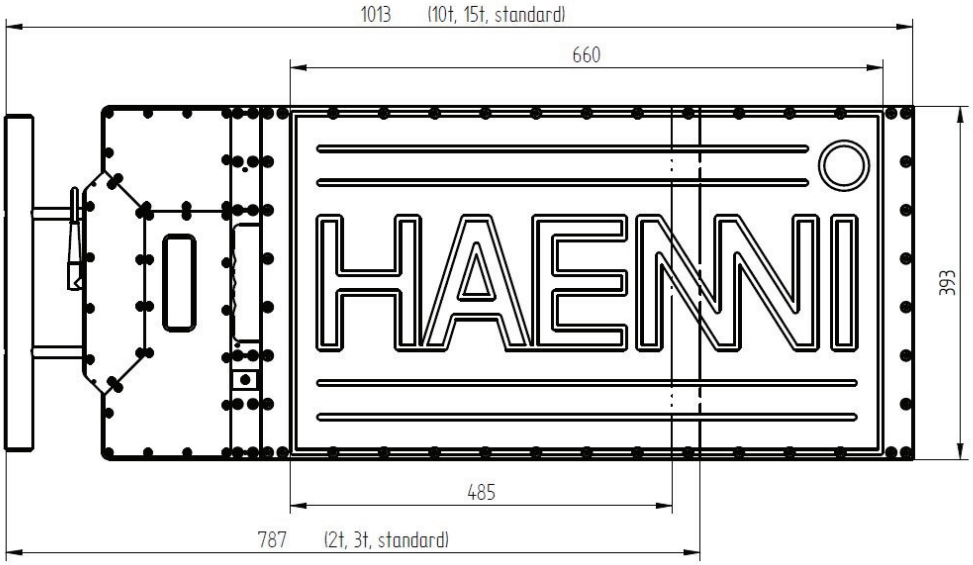
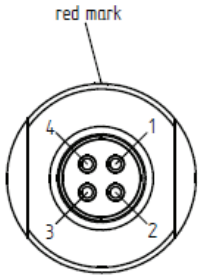
Wheel Load Scale WL 108

Dimensions





1 CAN HIGH
2 CAN LOW
3 V+
4 GND

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 (IEC 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/cm^2 .
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

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