

Mobile Railway Scale **MEW 2008**

for static weighing and checking for wagon overload

Portable railway scale **MEW 2008** for all types of rolling stock

Low cost, portable
measuring instrument

- Static determination of the weight of rolling stock and wagons
- Also suitable for the determination of wheel and axle loads
- Wagon overload check, optimal wagon loading etc.



MEW 2008 in standard version up to a maximum wheel load of 12.5 t (with 1 beam)

Suitable for all types of rolling stock

- Locomotives, tractive units, wagons,
- Metros, undergrounds and trams,
- Cranes and other rail-based stock

The **MEW 2008** was developed for universal application on various rail profiles.

It can be used on rail profiles from S49 and can be built into all track systems with standard rail fastenings. Adaptors are used for installation on higher rails.

Due to the usage of removable wear coatings, the system can also remain in the track after the measurement.



MEW 2008 in heavy-duty version up to a maximum wheel load of 15 t (with 2 beams)

The **MEW 2008** can be fitted in a very short time, by only 2 people.

The standard items we supply are

- Sensor element for S 49 with transducers
- Set of cables
- Notebook with software and printer
- Documentation
- Plastic cabinet on castors

Each measuring point is an independent digital scale (measuring system with integrated CAN measuring amplifier) that sends fully processed measured values over an interference-proof data BUS (CAN bus or Ethernet).

Both analysis software on the computer and display units on this BUS can display the measured values.



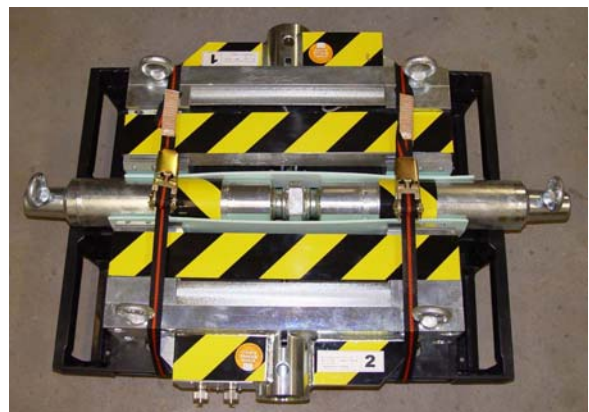
Axles, sum of axles and wagon or train weights can be determined using the MEW (version A). It is also possible to determine wheel/wheel, axle and bogie weights (version B).

By installing several **MEWs** in the track network to suit the distances between the axles, it is also possible to make and display a simultaneous measurement.



The standard software version can capture and display up to 8 measuring points (4 axle loads or 8 wheel loads).

As the software communicates with the measuring points using a specifically developed communication server, external terminals can be integrated at any time.



Each measuring system can be calibrated by an accredited body and certified as a measuring instrument (in accordance with DIN ISO EN and 7500-1).

Integrated wheel position detection (option) prevents incorrect measurements.

MPA Kalibrierdienst	Zulassungskarte für Werkstoffprüfmaschinen nach DIN EN ISO 7500-1 zum Prüfungszeugnis Nr. 1.2/2303	DB
Antragsteller: Bauart/Typ: 4 x 125 kN Radkraft-Messeinrichtung Hersteller: Hersteller-Nr.: 04_SER_01 / 2004		Baujahr: 2004 Hochstprüfkraft: 125 kN
Messbereiche (Höchstkraft) für	ist zugelassen von bis	DIN EN ISO 7500-1 Klasse/Bemerkungen
1 125 kN	25,0 kN 125 kN	0,5 Nr.: 04_SER_01_01
2 125 kN	25,0 kN 125 kN	0,5 Nr.: 04_SER_01_02
3 125 kN	12,5 kN 125 kN	0,5 Nr.: 04_SER_01_03
4 125 kN	12,5 kN 125 kN	0,5 Nr.: 04_SER_01_04
Die Prüfmaschine ist auf Grund der eingetragenen Vertragsbedingungen (Ausg. 1999, Erg. 4b) für Abnehmerprüfungen für die Deutsche Bundesbahn zugelassen bis einschließl. 06/2008.		
05.04.2007 Datum	 Unterschrift	

Software – data capture and evaluation

The measured data is evaluated in compliance with DIN and TRF using special weighing software for a PC or notebook (operating systems Microsoft Windows 2000™ or XP™).

The individual items of data and all the data can therefore be displayed and printed locally. In harsh industrial environments all data input, data output and measuring functions can also be controlled using the screen (touch panel option).

Logical design of the program's user interface and measuring processes make the software intuitive to use and result in very short familiarisation times.

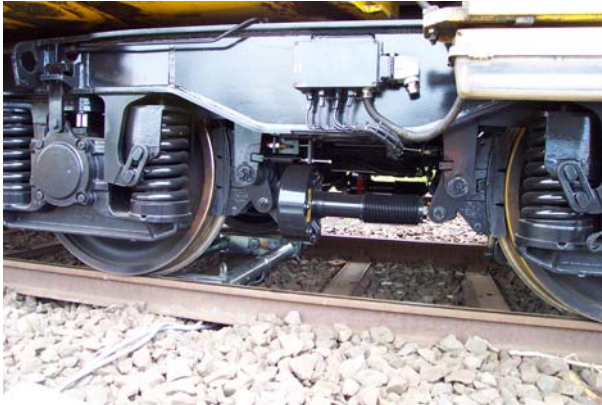
The measured results determined for the individual wheels and axles are displayed and allocated graphically in the measuring window.

A database contains all common vehicle types.

All data captured can be saved in a history file for verification.

The data captured can be exported by data set and transferred, e.g. to Microsoft™Excel™.





Usage of a heavy-duty version of the **MEW 2008** up to a maximum wheel load of 15 t (with two 2 beams)

Technical data on the sensor element

Robust steel design with stiff measuring bridges (bending < 0.5 mm)

Permitted measuring load/load capacity :	12.5 t, 15 t wheel
Steps (graduation) :	10 kg
Scale active length :	450 mm
Number of weighing sensors :	2
Protection class :	IP 67
Instrument class :	0.5 %
Component accuracy gradients depen. on inst. situation :	0.1 % (on transverse/longitudinal max. 1 mm, approx. +/- 0.5 % to 1 %)
Linearity error :	< 0.02 %
Weight (heaviest item) :	Approx. 35 kg
Material :	High quality steel
Rated temperature range :	-10°C to +65°C
Power supply :	12 V
Transducer characteristic :	0.1 mV / V
Measuring amplifier / sampling rate :	24 BIT / 10 kHz
Data transmission :	Can BUS / Ethernet
Rail profiles :	All standard profiles
Track gauge :	Standard 1435 mm, others on request

Delivery depending on version and requirement.

Please ask us for details.



MEW 2008 standard version up to a maximum wheel load of 12.5 t with 1 beam (figure left) and in heavy-duty version up to a maximum wheel load of 15 t with 2 beams (figure right)

We offer:

- Support during commissioning
- Training (with certificate)
- Calibration

Options:

- Wheel position measurement
- Touch panel display
- Other housings for the IT hardware (desktop, plug-in PC)
- Software customisation



MEW 2008 standard version with 12.5 t wheel load in use

- Technical data subject to change without notice - OEM version, subject to change by the manufacturer -

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Product information

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