

PTW1– Heavy Duty System



Patent Approved

PORTABLE, 'IN-MOTION' TRAIN WEIGHING SYSTEM

Weighwell Engineering Ltd were the first company to provide portable train weighing systems. Today with over 25 years experience and knowledge we continue to be the industry leaders with 100's of systems worldwide.

The Weighwell PTW1 Heavy Duty (HD) System is a portable, dynamic rail weighing system that allows the 'in-motion' weighing of axles, wagons and trains at speeds up to 3mph (5kph). It can be carried by two people to a rail vehicle in any location and installed in just 15 minutes with an achievable accuracy of +/- 1% dependent on operating conditions.

The PTW1 HD is designed to identify individual axle weight overloads that, if undetected, could lead to excessive wear and stress to wheel profiles, axle boxes, bearings, gear boxes, final drive units and suspension components.

The PTW1 HD is an ideal solution in arduous environments to provide check-weighing results for the heavy industrial steel, cement, gypsum and minerals markets.

KEY BENEFITS OF THE PTW1 HD

- More robust and can withstand an increased weighing range of 40 tonne per axle.
- No costly civil works required.
- Portable, quick and easy to install.
- Axle by axle weighing ensures there is no restriction on wagon type.
- As an option we can also provide individual wheel weights in-motion.
- The load cells are sealed so that reliable operation is possible, even under poor conditions.

The PTW1 HD is the first portable 'in-motion' rail weighing system that can be installed without alterations to the track or foundations. Used for any length of time, it provides reliable, accurate check weighing of all types of trains.

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5 EASY STEPS FOR INSTALLATION



1. The PTW ready to be assembled.



2. Select location and check rail head wear.



3. Putting the PTW together.



4. Positioning the PTW into the track.



5. Securing the PTW into the track.

TECHNICAL DATA

- Length of PTW: 656mm
- Approximate weight: 58kg (heaviest section).
- Power supply: 110 - 240VAC / 12VDC
- Increment size: 50kg
- Materials: High quality tool and mild steels.
- Temperature range: -20°C to +70°C
- Weighing range: 40.00 tonne per axle.
- Protection class: IP67 (indicator IP65)
- Mounting: Rail keys to fit most rail types.
- Installation time: 10-15 minutes
- Weighing speed: 3mph/5kph
- Accuracy: +/-1% dependent on operating conditions.



Digital indicator/printer in robust carry case

Weighwell PTW1 UK	
TEL +44 (0) 114 2699955	
23/02/10 02:24	
LOCO PULLING	
TRAIN No.	0000
MATERIAL No.	0000
DESTINATION	0000
GROSS WEIGHT	0195.25 (te)
AXLE WEIGHT (te)	
001	11.00 (te)
002	10.75 (te)
003	10.80 (te)
004	10.65 (te) 43.20 (te)
005	10.70 (te)
006	10.80 (te)
007	10.85 (te)
008	10.80 (te) 43.15 (te)
009	10.85 (te)
010	11.00 (te)
011	10.85 (te)
012	10.95 (te) 43.65 (te)
013	10.85 (te)
014	10.90 (te)
015	10.90 (te)
016	10.85 (te) 43.50 (te)

Sample Printout

*This PTW is not trade approved