

PTW1 HD – 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 28 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 wheels, 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 +/- 2-3% 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.
- The weighing results can be exported via USB or printout.
- 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 and accurate check weighing of all types of trains.

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SIMPLE AND EASY WEIGHING INFORMATION

The PTW1 HD is easy to use and operates via our in-house developed digital indicator unit. The weighing data is outputted via a simple and instantaneous printout from our thermal printout or exported via USB.

The advantage of exporting via USB is that it provides the ability to carry further more in-depth analysis of the weighing results. The results can be exported to a variety of different files types such as .csv files (more commonly known as Excel).



1	22/02/2016 11:52			
2				
3	CODE:0123AE			
4	No	WHEEL 1	2	AXLE Te
5		1	7.3	7.3 14.6
6		2	4.9	2.95 7.85 !
7		3	7.3	7.05 14.35
8		4	7.3	7.3 14.6
9	WAGON		51.4	
10		5	7.3	7.3 14.6
11		6	7.3	7.3 14.6
12		7	7.3	7.3 14.6
13		8	7.3	7.3 14.6
14	WAGON		58.4	
15		9	7.3	7.3 14.6
16		10	7.3	7.3 14.6
17		11	1.8	4.9 6.7 !
18		12	9.75	5.9 15.65
19	WAGON		51.55	
20		13	1.85	7.2 9.05 !
21		14	7.3	7.3 14.6
22		15	0.3	4.9 5.2 !
23		16	7.3	7.3 14.6 !
24	WAGON		43.45	
25		17	4.8	4.9 9.7 !
26		18	9.75	9.75 19.5
27				
28	TOTAL		00234.00Te	
29	F=0.00			
30	LOCO PULL			
31	LEFT TO RIGHT			
32	! IF OVER SPEED			

TECHNICAL SPECIFICATION

- Length of PTW: 656mm.
- Approximate weight: 58kg (heaviest section).
- Power supply: 110 - 240VAC / 12VDC.
- Increment size: 0.05t.
- Materials: High quality tool and mild steels.
- Temperature range: -30°C to +70°C.
- Weighing capacity: 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: +/- 2-3% dependent on site conditions (+/- 1% in ideal conditions).



Digital indicator and printer in robust carry case.

*The PTW is not trade approved and specifications subject to change.