

FOCUS ON SENSING & CONTROL FOR 20 YEARS

Provided Quality Automatic Instruments for Thousands of Custom-



Portable Dynamic Weighing System

PROFESSIONAL MANUFACTURER
FOR MEASUREMENT AND CONTROL

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Why choose ZHYQ ?

Welcome

ZHYQ is based in Melbourne, Australia, specializes in sensor technology and product design, development, sales and technical support to build and ensure high reliability and timely customized solutions for customers. With the advantage of having our own production facilities in China, we aim to serve international customers from more than 50 countries with reliable technology and excellent service.

Our product range includes:

- Sensors and transmitters for measuring pressure, weight, force and weighing.
- Sensors and transmitters for pressure, differential, temperature and concentration measurements.
- Structural health monitoring and highway weighing systems for Bridges, subways and tunnels Industry 4.0 wireless sensor network systems.

About Our Manufacturer

Shanghai Zhaohui Pressure Apparatus Co., Ltd. (ZHYQ) is our leading professional manufacturer in the industrial of pressure, flow, temperature, liquid level and Internet of Things (IoT). ZHYQ found in 1999. We are an ISO9001 (2015) Quality management certificated company, we acquired the certificates of CMC, Ex, MA, CE, RoHS and more. We are qualified for 7 Invention patents and more than 70 utility model patent technologies.



Technical advice from our highly experienced and trained expertsstaff



15,000m² plant, annual output 200,000 pieces transmitters



Nearly 60 national invention patents and utility model patents



ISO 9001: 2015 accredited quality systems



CMC, Ex, MA, CE, RoHS, ATEX, SIL certification



A whole new Research & Development centre in Shang Hai



The first in the industry to obtain a high-range 500MPa metering license



Efficient and complete production line of monocrystalline silicon sensor



R&D Center



Production Base





Customer Distribution

Asia

- China
- Japan
- India
- Turkey
- Pakistan
- Iran
- Thailand

North America

- Canada
 - America
- ### South America
- Columbia
 - Brazil
 - Bolivia
 - Chile

Europe

- England
- Germany
- Italy
- Poland
- France
- Finland
- Spain

Oceania

- Australia
 - New Zealand
- ### Africa
- Zambia
 - South Africa

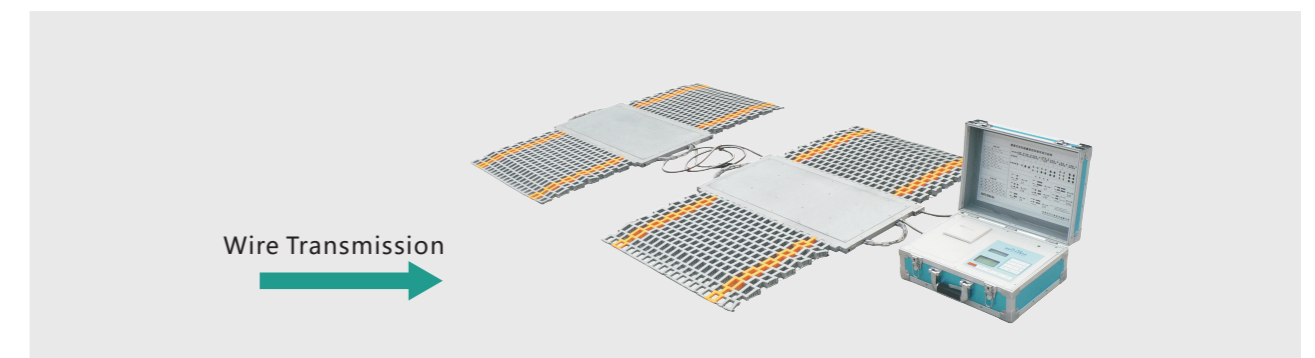
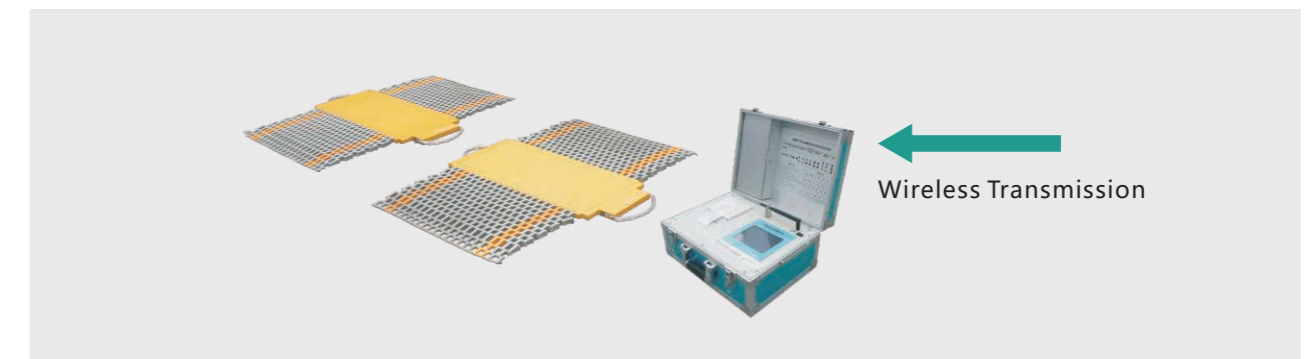
System summary

BX series of portable wheel&axle dynamic weighing system is our latest patented product (Patent No: 200520056133.7). This product is suitable for different types of vehicle weighing both dynamically and statically. It has the advantages of high precision, small size, light weight and ease of operation comparing to fixed vehicle weighing systems. The BX series of weighing system consists two main parts: weigh-pad and weighing instruments. The weigh-pad is made of aluminum alloy or mixed aluminum alloy and stainless steel, which can load from 1 ton up to 40 tons.

The BX101 series of weigh-pad is installed with several fully sealed load cells underneath the loading platform. The sealing level is IP66~IP67. The weigh-pad also comes with a patented designed slope, which its length and width can be adjusted to improve dynamic weighing performance.

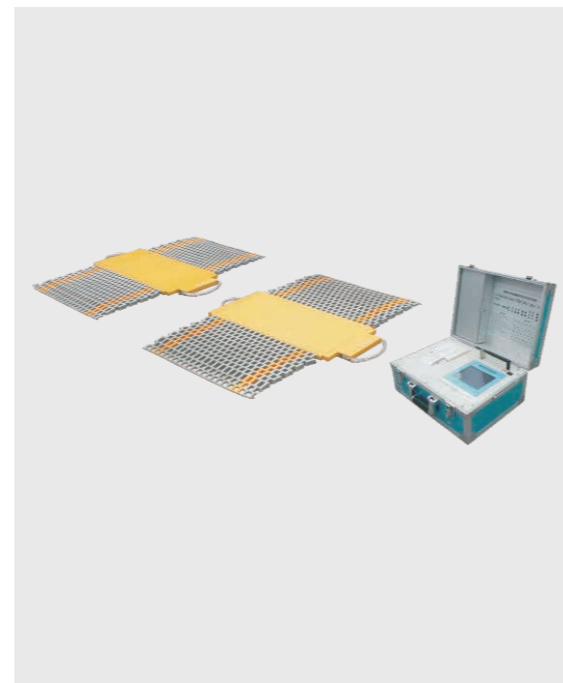
The BX102 series weigh-pad's load cell and loading platform are designed as a whole. The shape of this weigh-pad is a patented design which greatly improves the dynamic weighing performance and the appearance of this product.

Different weigh-pad can be selected to work with different weighing instruments to fit different situations. All of our weigh-pad products are compatible with our weighing instrument products. Normally, two weighpads can be used for dynamic measuring, or several weigh-pads can be used for static measuring.



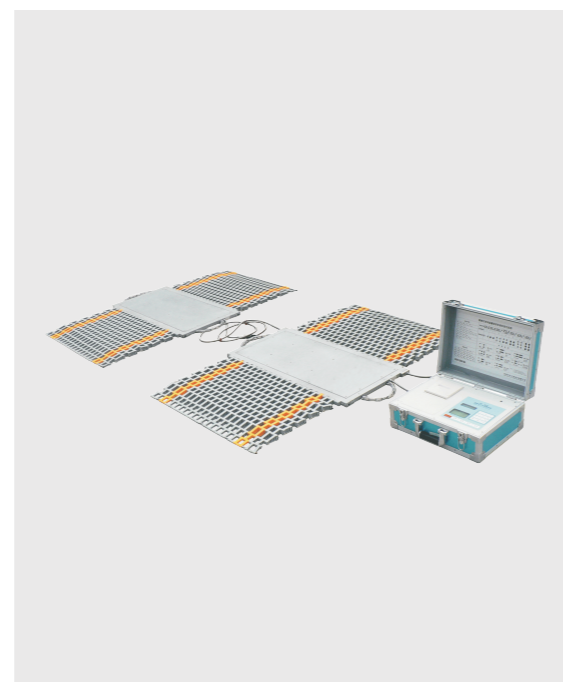
Wireless Transmission

axle weighing span:	0 ~ 40t
double LCD display:	axle wieght display : 0 ~ 99995kg
	total weight display: 0 ~ 999995kg
	display unit height : 13mm
accuracy:	static: $\leq 20\%F.S \pm 0.3\% F.S$ $> 20\%F.S \pm 0.5\% F.S$
	dynamic: $\leq 20\%F.S \pm 1\% F.S$ $> 20\%F.S \pm 3\% F.S$
vehicle velocity:	3 ~ 5km/h
running temperature:	-10 ~ 60°C
relative humidity:	< 90%
wireless transmission length:	with no obstruction:20m
	with obstruction:12m



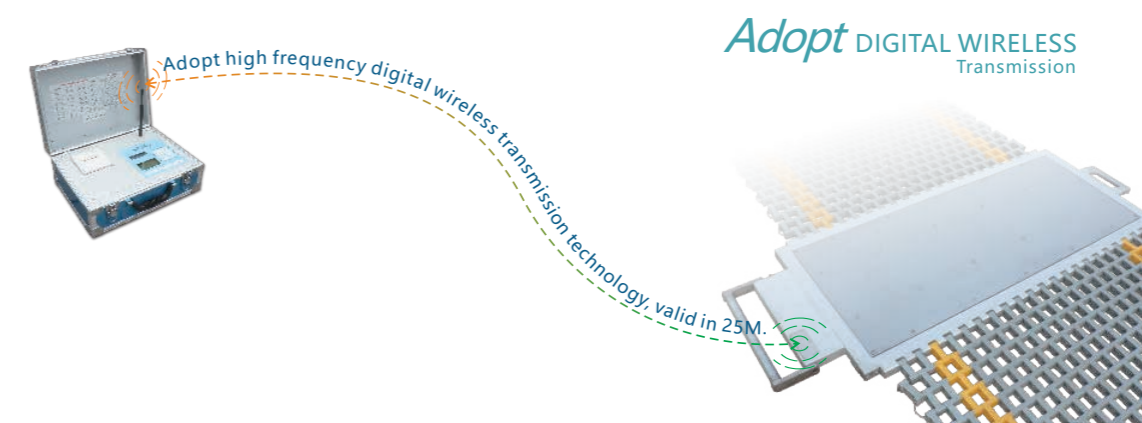
Wireless Transmission

axle weighing span:	0 ~ 40t
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	total weight display: 0 ~ 999995kg
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	dynamic: $\leq 20\%F.S \pm 1\% F.S$ $> 20\%F.S \pm 3\% F.S$
vehicle velocity:	3 ~ 5km/h
running temperature:	-10 ~ 60°C
relative humidity:	< 90%



Caution and maintenance

1. Ground requirements:
During weighing process, the weigh-pad should be put on a flat road, the differ ence of level should be less than or eaqual to 3mm/m2.
2. During dynamic weighing, recommended vehicle speed is 5km/h, and no more than 10km/h.
3. DO NOT break when the vehicle is running on the weigh-pad.
4. The weigh-pad should be connected with the indicator firmly, and with good earth connection. It also needs to be away from magnetic fields.
5. Do not use the system in rain, or wet environment for too long.
6. If not used, the system should be stored in dry, non-rusty environment.
7. Move the system carefully and lightly, do not drop.
8. Do not press the button too hard. Press it lightly to increase its service life.
9. Turn off the LCD backlight unless necessary to increase battery life.
10. Do not expose the indicator in rain, or wash it with chemicals.
11. Avoid exposing the LCD display in sun light to increase its service life.
12. Please keep the certificates of your products. Contact us if they have any problem.
13. Do not disassemble the weigh-pad or the indicator. Results of any unauthorised use or repair of the system are the user's responsibility.



Use instruction

1. Equipment(Actual equipments are listed on the packaging receipt)

- | | |
|----------------------|--|
| 1) Indicator | 1 set |
| 2) Weighpad | 2 pcs (1 or more can be used in group for static weighing) |
| 3) Cable (tube) | 2 pcs (BX102B contains 2 sets, so it has 4 pcs) |
| 4) Roll-up level mat | 2 pcs/ pad (BX101E/F/H is plastic slope) |
| 5) Print paper | For indicator |
| 6) Ribbon | For indicator |
| 7) Adjusting mat | 5 pcs/ pad |
| 8) Connector | For indicator (connected in factory) |
| 9) Charger | For indicator |

2. Weighing instruction.

- 1) This system must be used in group, can't use mixed.
- 2) Lay down the weighpad on a flat road, adjust the position for each pad according to the axle, and make sure the weighpad is steady and stationary, adjust it with adjusting mat.
- 3) Connect each equipment as required. BX101 series connect to the indicator in parallel. BX102 series connect to the indicator in series. BX101 series connect to the slope at the hinge. In order to protect the connection cable, the further end weigh-pad's connection cable should go through the other weigh-pad's cable groove to connect to the indicator. Use the side hook to lock the cable inside the groove, so it is not higher than the slope. Although this system is normally used with two weigh-pads for dynamic measuring, one or more weigh-pads can be used for other weight measuring purposes.
- 4) During dynamic weight measuring, recommended vehicle speed is 5km/h, and should not be more than 10km/h.
- 5) Make sure the weigh-pad has no load on it before turning on the power. The weighing object or axle should be inside the effective weighing area of the weigh-pad, otherwise the weighing precision will be affected. As the image below:



The wheels of the vehicle should be vertically aligned with the weighpad, and set the weighpad in front of the wheels, in order to test more accurately.

It is finished testing after all wheels go through the weighpad. It can calculate the whole weight, single axle weight and the cargo weight. It also can inform the overload information. The indicator has the printer.

System Function Feature

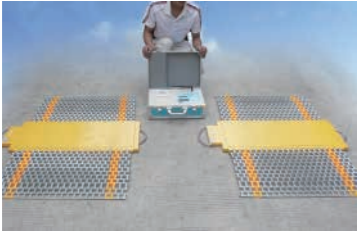
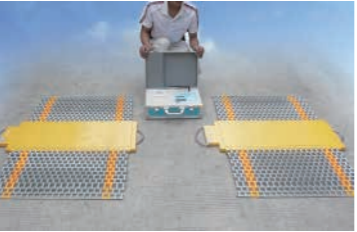
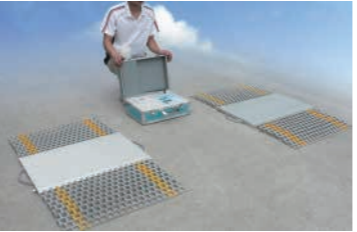



- ◆ Ultra thin, lightweight, portable
- ◆ Case style indicator, DC, battery lasts 40 hours, printing & displaying power off.
- ◆ Mode Select: Police Mode, Highway Administration Mode, etc.
- ◆ Static and dynamic test, fast and accurate
- ◆ Check overload automatically
- ◆ Print test result automatically
- ◆ Store test data (up to 1300 records when upgraded)
- ◆ Chinese display
- ◆ Input complete vehicle number including province, city
- ◆ Input test company name and test person name
- ◆ Backlight LCD display
- ◆ Indicator can connect with computer



Application


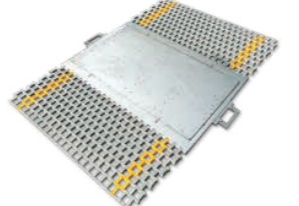
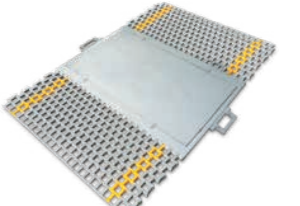

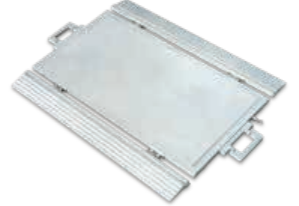
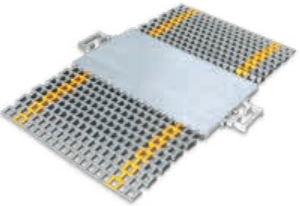


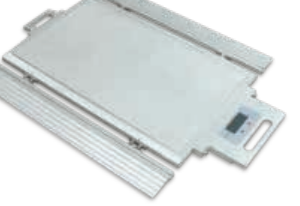
1. Applied in weighing and loading control of trucks in construction, agriculture, forestry and waste disposal.
2. Applied in lawful check of weight by road transport safety check.
3. Applied in load distribution of wheel and axle in automobile design and production.
4. Applied in reliability tests of some special vehicles.

More

<p>BX 1E3W</p>  <p>Rated load: 20t Netweight: ≈27kg Dimension: 800×350×22.5mm</p>	<p>BX 101SW</p>  <p>Rated load: 20t Netweight: ≈27kg Dimension: 800×350×22mm</p>	<p>BX 102BH</p>  <p>Rated load: 20t Netweight: ≈26kg Dimension: 700×420×29mm</p>
<p>BX 1E4H</p>  <p>Rated load: 20t Netweight: ≈26kg Dimension: 800×450×22mm</p>	<p>BX 10SH</p>  <p>Rated load: 20t Netweight: ≈27kg Dimension: 800×350×22mm</p>	<p>DVW-WM100</p>  <p>Netweight: ≈10kg Dimension: 430×310×190mm</p>
<p>This wheel and axle weighing system is our new product or special-customize products, identification as the real products.</p>		



More

<p>BX 101E</p>  <p>Rated load: 20t Netweight: ≈23kg Dimension: 1010×400×18mm</p>	<p>BX 101H</p>  <p>Rated load: 20t Netweight: ≈45kg Dimension: 1210×550×21mm</p>	<p>BX 101F</p>  <p>Rated load: 20t Netweight: ≈38kg Dimension: 1092×550×20.5mm</p>
<p>BX 101B-2T</p>  <p>Rated load: 2t Netweight: ≈8kg Dimension: 475×332×18mm</p>	<p>BX 101</p>  <p>Rated load: 10;20;40t Netweight: ≈20kg Dimension: 911×468×18mm</p>	<p>BX 102C</p>  <p>Rated load: 15;20t Netweight: ≈27kg Dimension: 914×350×27mm</p>
<p>BX 102B</p>  <p>Rated load: 15;20t Netweight: ≈30kg Dimension: 894×600×30mm</p>	<p>BX 101D-Y-2T</p>  <p>Rated load: 2t Netweight: ≈10kg Dimension: 561×332×25.5mm</p>	<p>BX 101D-Y</p>  <p>Rated load: 10;20;40t Netweight: ≈24kg Dimension: 1008×482×25.5mm</p>
<p>Note: BX101D-Y-2T and BX101D-Y-20T are with indicator , just suitable to use in static weighing This wheel and axle weighing system is our new product or special-customize products, identification as the real products.</p>		