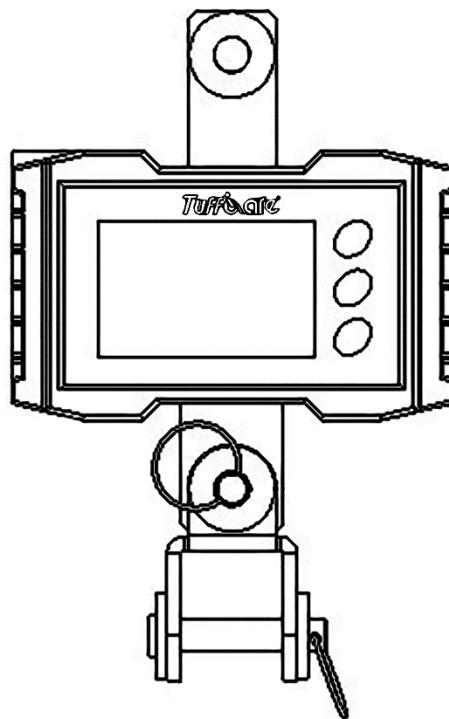




LPW10

High Resolution Digital Crane Scale



User Guide

Please read this guide carefully before using this scale.

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## 1. Safety Guide

Taking care to properly use the scale will extend its life, which includes but is not limited to:

- 📖 Rotating the load during use, rather than the scale.
- 📖 Check clips, pins, and screws regularly. Inspect the shackle and hook prior to each use.
- 📖 Do NOT go over the scale's capacity. Doing so may damage loadcell and void the warranty.
- 📖 Do NOT leave loads hanging on the scale longer than is necessary. This keeps the scale's accuracy sharp and extends its lifetime.
- 📖 Do NOT use the scale under thunder or rain.
- 📖 Do NOT Place the scale directly on the ground. Instead place the scale on a shelf in a dry and well ventilated room.
- 📖 Do NOT attempt to repair the scale yourself. Contact your local representative for repairs.

## 2. Features

This scale is the result of sound mechanical design with a proven record. With its utilization of advanced electronics it provides a robust feature set that is accurate, adaptable, and straightforward to use.

- ✓ **Functions:** Unit conversion, auto power-off, battery inspection, resolution switch and more.
- ✓ **Top quality:** Strictly in accordance with OIML R76, European CE directives, and Chinese GB/T11883-2202 national standards.
- ✓ **Durable Safety:** High firm hook, aluminum-casting case, shackle, dedicated weighing loadcell for safe installation.
- ✓ **Reliable:** Quality integrated circuit provides high performance and long-lasting stability.
- ✓ **Broad Use Cases:** Scale of choice in many fields and industries such as storage, textiles, and metallurgy.

### 3. Specifications

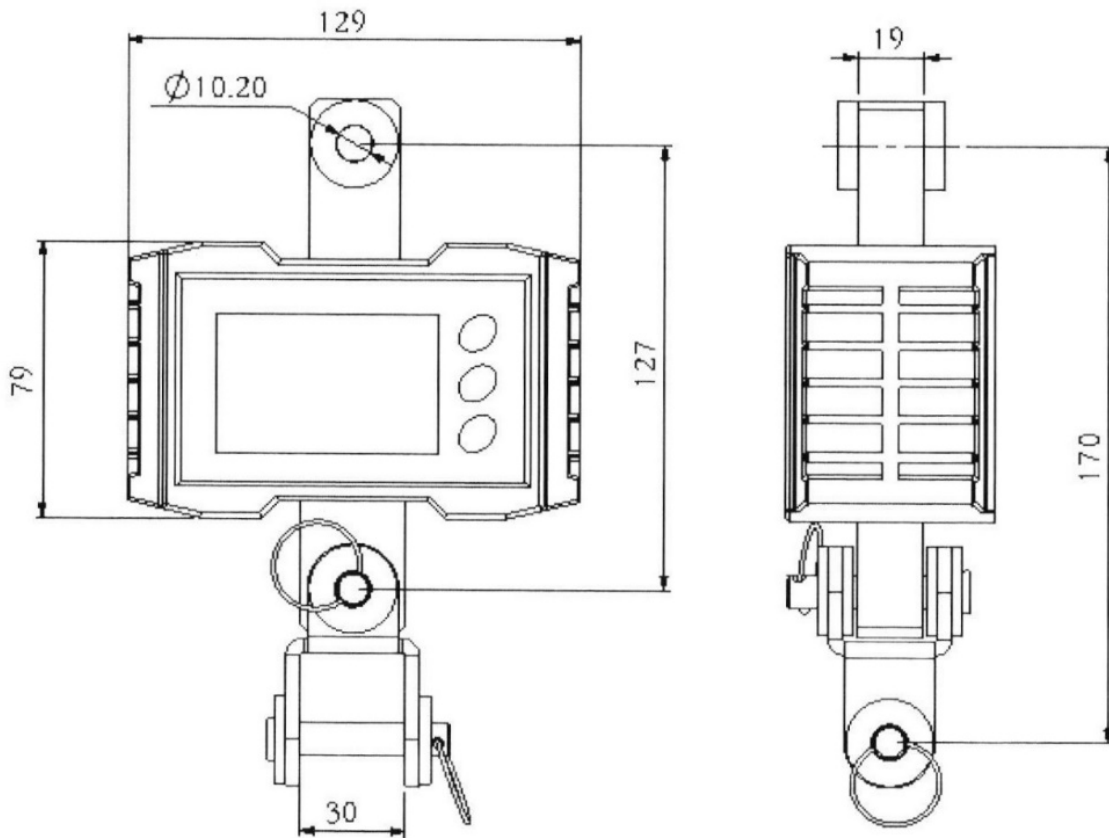
Accuracy	Chinese G/BT 11883 CII eqv. OIML R76
Tare Range	100% F. S.
Zero Range	4% F. S.
Stable Time	≤10 seconds
Safety Load	120% F. S.
Overload	100% F. S. + 9e
Ultimate Load	400% F. S.
Battery	3* AA 1.5V Batteries
Battery Life	≤65 hours w/backlight level 3 always lit
Display	22mm/11mm HTN LCD with backlight
Op. Temp.	-10°C ~ +40°C

Op. Humidity	20° C ≤90%
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#### 4. Capacity

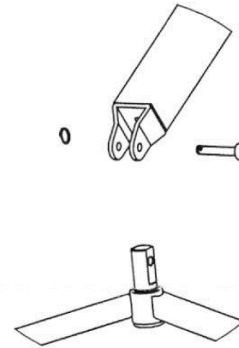
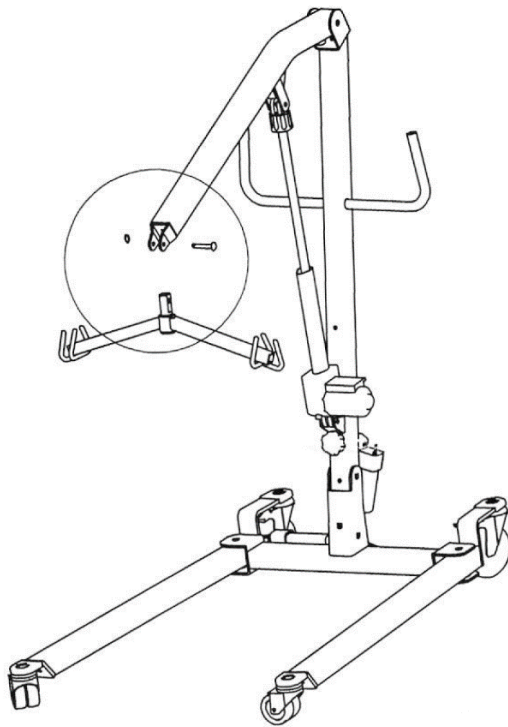
Model	Max Cap.	Min Cap.	Res.	Division
LPW10	500kg	4kg	o. 2kg	2, 500

#### 5. Dimensions and Installation

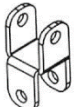




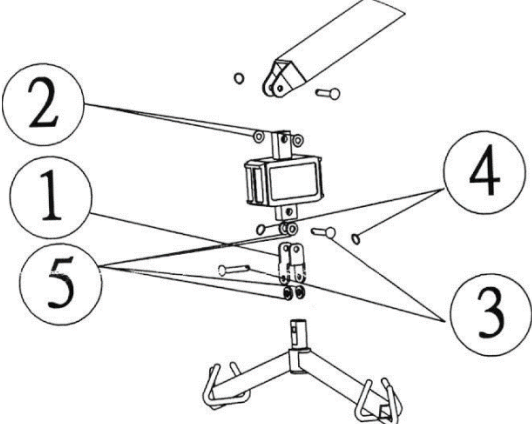


**Net Weight: 1kg**

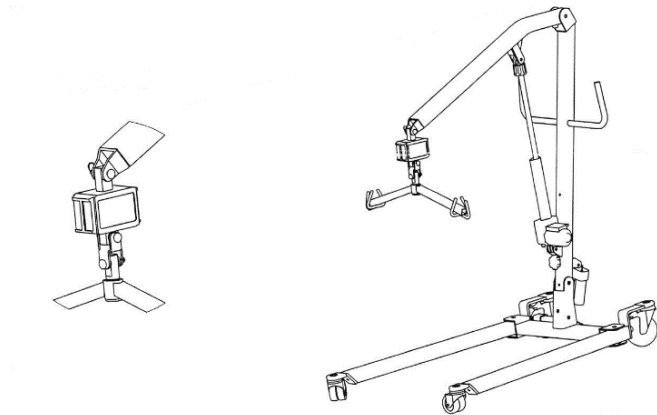
## Installation



- A. Remove the hanger bar from the lifter boom (pictured above).
- B. Insert the top plate of the digital scale into the lifter boom. Then secure the scale with the lifter's bolt and the clear washers.



<p>① Mounting Bracket</p> <p>② Plastic Washers (Clear)</p> <p>③ Clevis Pin</p> <p>④ Split Ring</p> <p>⑤ Nylon Washer (Black)</p>	 x 1  x 2  x 2  x 2  x 4	
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- C. Install the mounting bracket to the bottom of the digital scale and secure it with a clevis pin, black washers, and a split ring.
- D. Insert the hanger bar onto the bottom of the mounting bracket and secure it with a clevis pin, black washers, and a split ring.



## 6. Display and Keys

### Scale Keys

Key	Name	Function
	On/Off	Short Press: Cancel and return to weighing mode Long Press: Power On/Off
	Tare	Short Press: Tare in/out; increase digit Long Press: Zero; move digit

	Hold	Short Press: Lock/Unlock; Confirm & Next Long Press: Unit Switch; Input/Cancel decimal point
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## Indicators

LED	Name	Note
S	Stable	Shown when weight is stable
Z	Zero	Shown when weight is at zero
T	Tared	Shown when scale is tared
H	Hold	Shown when scale is locked
LB	lb	Shown when unit is lb
KG	Kg	Shown when unit is kg
UN	UN	Shown when unit is USER UNIT

## Messages



Message	Stands for	Note
-----		Detect Weight
SETUP	SETUP	User Setup Menu
BAT99	BATtery	Battery Life Percentage
END	END	Save and Exit





<i>OFF</i>	OFF	Power Off
<i>OVER</i>	OVERload	Overloading
<i>ERR</i>	ERRor	Invalid Operation

## 7. Operations



### Power On/Off

- ✓ Press  for 1 second to power-on scale. Scale performs initialization sequence and shows *88888* twice, then capacity *1000*, battery life percentage *BAT99* shows, then weight detection *-----* shows, and then the scale auto-zeroes. For more information about auto zero see Scale Configuration in Technical Manual.
- ✓ Press  for 1 second to power-off scale. Power down sequence begins and *BAT99* shows followed by the *OFF* message. When the voltage of the three batteries are less than 3.2V, the scale will automatically power off. Please replace dead batteries with new ones.



### Zero

- ✓ Press  for 1 second to zero; *Z* will show.
-  If load is in motion, tared, or out of manual zero range, *ERR* shows instead. For information about manual zero range, check Scale Configuration in Technical Manual.


### Tare In/Out

- ✓ In gross mode, press  to tare in;  $\bar{T}$  will show. If load is in motion, negative or out of tare range, *ERR* will show.
- 📖 Tare reduces the apparent overload range of the scale. For example if a 500\*0.2kg scale has a 100kg container as its tare, the scale will overload at a weight of 401.8kg (500-100+ additional 9 divisions).
- ✓ In net mode, press  to tare out.  $\bar{T}$  disappears.



### Lock/Unlock

- ✓ Press  to lock the screen; *H* appears while locked.
- ✓ Press  to unlock the screen; *H* disappears.



### Unit Switch

- ✓ Press  for 1 second to switch unit of measurement between kg, lb, and User Unit.
- 📖 When units are in kg, *KG* shows. When units are in *LB*, lb shows. When units are in User Units, *UN* shows.
- 📖 For more information about User Unit, refer to Scale Configuration in Technical Manual.

## 8. User Setup

- ✓ Press  and  at the same time for 1 second to enter User Setup Menu. *SETUP* will show.

### Auto-Off Timing

- ✓ Press  to enter Auto-Off timing menu. *OFF---* shows.
- ✓ Press  to change auto-off timing value.

📖 Auto off timing can be set to **0** (disabled), **5** (5 mins), **10** (10 mins), **15** (15 mins), **30** (30 mins), and **60** (60 mins). **AUTO-OFF IS DISABLED BY DEFAULT.**

📖 Enabling auto-off maximizes scale's battery life by starting a countdown timer when there is no action or load has stabilized. Any key press or load movement restarts the countdown timer for auto-off.

### Backlight Brightness

✓ Press  to adjust backlight brightness; **b7** shows.

✓ Press  to change brightness values.

📖 Backlight brightness can be set to **OFF** (disabled), **1** (dim), **2** (normal), and **3** (bright).

📖 Dim backlight brightness saves a tremendous amount of battery power.


### Idle Mode Timing

✓ Press  to enter idle mode timing; **IDL--** will show.

✓ Press  to changing timing values.


📖 Idle mode timing can be set to **0** (disabled), **5** (5 sec), **10** (10 sec), **15** (15 sec), **30** (30 sec), and **60** (60 sec). **Idle timing mode is 30 seconds by default.**

📖 Scale automatically enters idle mode when there is no action or the load is stable to conserve battery power. Any key press or movement in the load will cause the scale to wake up from idle mode.

✓ Press  to exit the User Setup menu.

## 9. Troubleshooting & Battery Maintenance

If the following solutions do not solve your issue, please contact your local representative.

Symptom	Possible Cause	Suggested Solution
Not powering on after  is pressed	Discharged/Defective battery	Check battery and replace
	Defective On/Off key	Press harder and hold for 2 seconds
	Defective power cable	Open front panel, check power cable
	Defective Mainboard	Contact Representative
Backlight flashes	Discharged Battery	Replace Battery
No action after key press	Discharged Battery	Replace Battery
	Defective Key	Contact Representative
Weight Reading is not stable	Load in motion	Keep load stable
	Weak anti-motion	Change anti-motion level
	Damp loadcell or mainboard	Dry loadcell or mainboard
	Defective Mainboard	Contact Representative
Weight reading	Discharged Battery	Manual Zero scale before loading

Not zero when no load	Loadcell stressed	Hang scale in storage
	Loadcell drifts	Contact Representative
Large error in weight reading	Scale not zeroed before load	Manual Zero scale before loading
	Wrong unit	Switch to correct unit
	Scale requires calibration	Calibrate scale
	Defective loadcell or mainboard	Contact Representative

## Battery Maintenance

In order to maximize battery life, please read the following maintenance guide.


📖 This scale is powered by 3 AA 1.5V batteries.

📖 Battery housing can be opened by screwing out 2 screws.

📖 Batteries work for over 65 hours depending on Backlight Brightness and Idle Mode settings.

📖 Maximize battery life by dimming brightness and enabling Auto-Off and Idle Mode.

📖 Storing the battery in optimal conditions between  $-20^{\circ}\text{C}$  ( $-4^{\circ}\text{F}$ ) and  $+50^{\circ}\text{C}$  ( $122^{\circ}\text{F}$ ) helps in maximizing battery life. Stored batteries should be recharged every 3 months.

 When battery voltage provided by the 3 batteries is less than 3.2V, the scale will auto power off. Please replace the dead batteries with new ones.