ANYLOAD®

OCSL

Mini Type Crane Scale

User's Guide v2

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1. Introduction

Note: Before using the scale, please read this guide and keep this for future reference.

For good performance and precise measurement on daily operation, observe the following safety guides and maintenance recommendations:

- Do NOT overload the scale. This may damage the load cell and will void the warranty.
- Do NOT leave the load hanged on the scale for too long. This will decrease scale's accuracy and shorten the load cell's life span.
- Inspect the shackle and hook before using. Check clips, pins and screws properly fitted and installed.
- Check battery frequently. When scale drained its battery, charge the battery with its dedicated charger or replace it with a new one
- Avoid rotating the scale, this may damage the load cell
- Do NOT use scale under thunder or rain.
- Do NOT attempt to repair the scale by yourself. Contact your local dealer or to the Technical Support.

2. Specifications

FEATURES

This scale is a combination of sound and proven mechanical design, with nowadays' most advanced electronics to provide a superb feature sets. It is versatile, reliable, accurate and easy to operate.

- **Superb Quality**. Strictly in accordance with OIML R76, Chinese GB/T11883-2000 certified quality system.
- **Great Safety**. Quality stainless steel load receptor and Aluminum-casting case to provide high safety level.
- **Newest.** 20mm LCD, visual distance can go to more than 10m
- **Design.** Demountable hook
- **Leading Technology.** SMT technology, quality integrated circuit and dedicated weighing load cell and ensures long time stability.
- **Smart Power Saving.** 3*AA battery with low power consumption design
- **Portable.** Different color options. Easy to carry.

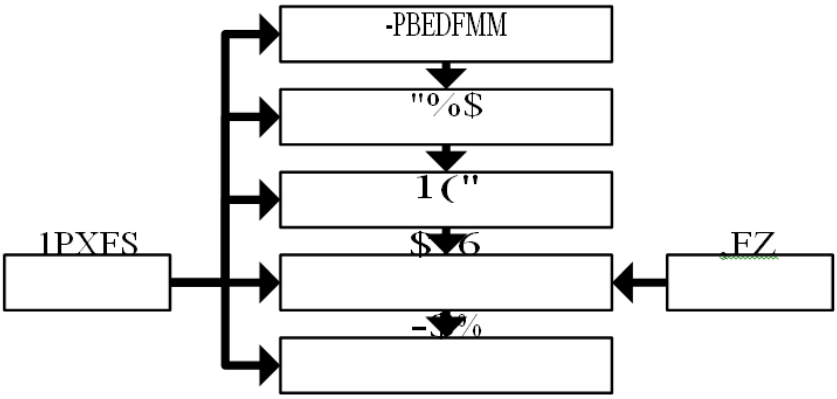
SPECIFICATIONS

Accuracy Class	Chinese GB/T 11883-2002 Class III Equivalent to OIML R76
Tare Range	100% F.S.
Auto Zero	±50% F.S.
Manual Zero	±2% F.S.
Zero Tracking	0.5e/s
Reading Stable Time	≤10 seconds
Auto-sleep	When stable and no activities within 3 sec.
Auto-off	When stable and no activities within 3 min.
Overload	100% F.S. + 9e
Max. Safety Load	120% F.S.
Ultimate Load	300% F.S.
Battery Life	>150 hours
Temp. (Op.)	- 10℃ ~ + 40℃
Humidity (Op.)	≤90% at 20℃
Display	0.7 inch (17.78mm) numerical
Net Weight	620g

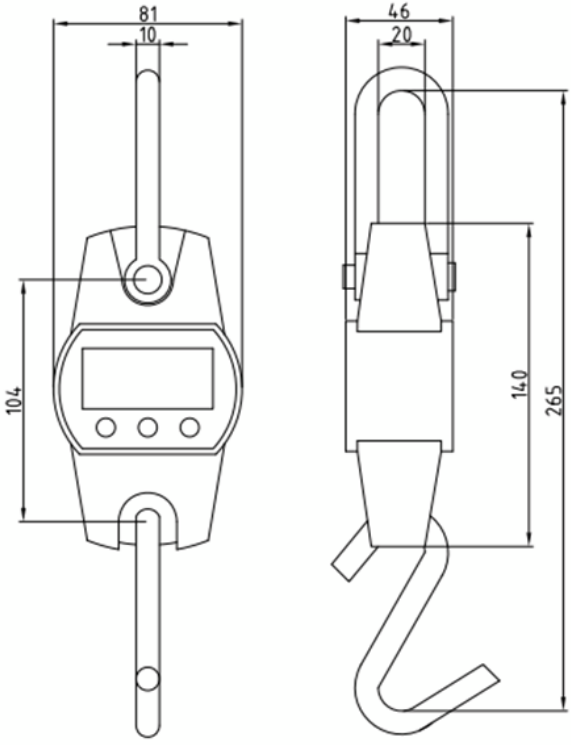
CAPACITIES & RESOLUTION

model	max. cap. (kg/lb)	min. cap. (kg/lb)	resolution
OCS-003-L	30/60	0.01/0.02	3,000
OCS-005-L	50/100	0.02/0.05	2,000
OCS-006-L	60/120	0.02/0.05	3,000
OCS-01-L	100/200	0.05/0.1	2,000
OCS-012-L	120/240	0.05/0.1	2,400
OCS-015-L	150/300	0.05/0.1	3,000
OCS-02-L	200/400	0.1/0.2	3,000
OCS-03-L	300/600	0.1/0.2	3,000

SCHEMATIC DIAGRAM

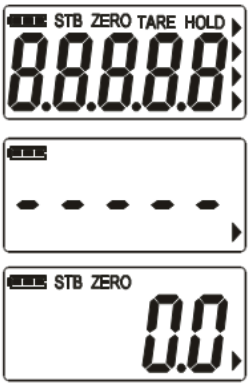


DIMENSIONS



3. Operation Guide

POWER ON



Press  for 1 second to initialize boot up and battery test.

- Screen will show detection message while detecting its load and processing auto-zero.

POWER OFF

Press  for 1 second to power off the scale.

- Display will show power-off message.

TARE

Press  to store the weight as tare.

- "TARE" will appear and weight reading will turn to zero.
- If weight is greater than 100%F.S. or lesser than 0, taring is not allowed.
- If weight reading is not stable or been held, taring is not allowed.
    - Taring will reduce the scale's apparent overloading range. For example, if a 10kg container is tared to a 50kg maximum capacity scale, the new overload weight shall be at 40.18kg (5000 – 1000 + 9 divisions).

HOLD

Press HOLD UNIT to lock the weight reading.

- "HOLD" will appear and reading in the display will be frozen.
- Press HOLD UNIT again to unlock and scale will read the actual load.

  - "HOLD" will hide and weight reading will resume.

UNIT SWITCH

Press HOLD UNIT for 1 second to switch measuring unit between kg, lb and N.

- If scale is in tare or in hold, unit switching is not allowed.

ZERO

Press TARE ZERO for 1 second to zero the scale.

- "ZERO" will appear and weight reading will turn to zero.
- If scale is in tare or load is not stable or in hold, zeroing is not allowed.
- If the weight exceeds the Manual-Zero range, zeroing is not allowed.

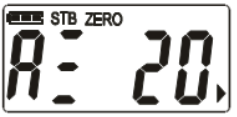
SETTINGS

Hold and press HOLD UNIT and TARE ZERO keys simultaneously for 1 second to enter Settings Mode. SETUP should appear in the display.

Press TARE ZERO to enter Auto-off options and press HOLD UNIT to select Auto-off option.

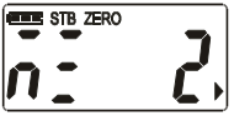
- Auto-Off can be set to 0 (disabled), 5 (5min), 15 (15min), 30 (30min) and 60 (60min).

Press TARE ZERO to enter Auto-Zero options and press HOLD UNIT to select Auto-Zero option.



- Auto-Zero can be set to 0 (disabled), 2 (2%F.S.), 4 (4%F.S.), 10 (10%F.S.), 20 (20%F.S.), 50 (50%F.S.).

Press TARE ZERO to enter Manual-Zero options and press HOLD UNIT to select Manual Zero option.



- Manual-Zero can also be set to 0 (disabled), 2 (2%F.S.), 4 (4%F.S.), 10 (10%F.S.), 20 (20%F.S.), 50 (50%F.S.)

Press TARE ZERO to enter Backlight options and press HOLD UNIT to select Backlight option.

- Backlight can be set to off (disabled), 5 (5sec), 15 (15sec), 30 (30sec), 60 (60sec) and on (never).
- When Backlight is set to 5, 15, 30, or 60, the scale will turn off the backlight if the scale is stable and no activities within the set parameters (enumerated above).
- When Backlight is set to off, the backlight is disabled and will never turn on.

- When Backlight is set to on, the scale's backlight will never turn off even if it is stable and no activities on it.
- Press TARE ZERO to exit the Settings mode 

4. Troubleshooting

Symptoms	Possible Causes	Solutions
blank display when On/Off is pressed	discharged battery	replace battery
	defective battery	
	defective ON/OFF key	press ON/OFF key for longer period
no action taken after TARE or HOLD is pressed	defective TARE or HOLD key	clean TARE or HOLD key
unstable readings	scale in motion	stabilize the load and scale
	scale is damped	dry the scale
	dust on PCB board	clean PCB board
reading is not in zero without load	unstable system power	longer warm-up time
	load-cell was stressed too much or too long	hang the scale in storage
large error in weight reading	scale is not zeroed before loading	keep the scale unloaded and reboot
	re-calibration needed	re-calibrate the scale
	wrong unit	switch to correct unit

5. Calibration

Version 2 Models:

Parameters	Operation	Notes
Setting the division, resolution and scale's max capacity	-Turn off the scale. Press and then release the [ON/OFF] when the display shows "88888", then quickly hold and press the [HOLD] & [TARE] keys until the scale displays "d 0.00 " or "d 0.0". This is the parameter for decimal point. -The maximum capacity parameter should not exceed your load cell's capacity. The unit of this parameter is automatically in kg. If your scale is rated 60lb then the value here should be 30.00kg. -There are 3 resolutions available: E=1, E=2, E=5	-Press [TARE] to go to a submenu -Press [HOLD] to change the decimal point or resolution. Press the [TARE] key to save it. -Press [HOLD] to move to next digit. Press [ON/OFF] to change the value of the selected digit. Press [TARE] to save parameters.
Enter Calibration	-Turn off the scale. Press and then release the [ON/OFF] when the display shows "88888", then quickly hold and press the [TARE] key until the scale displays "LoAd0". At this stage, remove all loads from the scale and make sure it is stable before starting the zero calibration. -To start the Zero Calibration, press the [TARE]. When zero calibration is taking place it should show " ----- " then will ask the amount of weights to be used during span calibration -For better calibration results, it is recommended to use weights of at least 80% of scale's max capacity. The test weight's value must be expressed in kg since the scale can only be calibrated in metric unit. For example if the scale is rated 60lb then the weights required should be 20.00kg (take note not in lb unit) -Load the 20.00kg weights on the scale then press [TARE] to start the span calibration. Make sure the load is stable before starting the calibration. -The scale will show " ----- " when span calibration is taking place and will display " End " when the calibration is succeeded.	-The calibration parameters are based only on metric unit (kg). The scale's division, max capacity and test weights value must be expressed in metric (kg) -Press [HOLD] to move to next digit. Press [ON/OFF] to change the value of the selected digit. Press [TARE] to start the span calibration.

Version 1 Models:

Options	Display	Operations	Notes
Enter Calibration Mode		Hold and press [HOLD] and [TARE] simultaneously, keep pressing until SETUP displays.	Enter Setup Mode *(At this stage set the unit of measurement you are going to calibrate, hold & press the[HOLD/UNIT] to switch unit)*
	SETUP	Press [ON/OFF], [HOLD] and [TARE] simultaneously, keep pressing until SCALE displays.	Enter Calibration Mode
	SCALE	Press [TARE].	
Full Scale	_XXXX	Press [HOLD] to change Full Scale and press [TARE] to save setting.	For example, if you set the unit at kg and setting the parameter here to 600 then the full scale should be 600kg else if it was set to lb then the full scale shall be equivalent to 600lb.
Resolution	E X	Press [HOLD] to change Resolution and press [TARE] to save setting.	1/2/5
Decimal Point	Pt X	Press [HOLD] to change Decimal Point and press [TARE] to save setting.	0: XXXXX 1: XXXX.X 2: XXX.XX 3: XX.XXX
Zero Calibration	LoAd0 -----	Press [TARE] to start zero calibration.	Set the scale to no load status and must be at stable state.
Load1 Calibration	_XXXX -----	Press [HOLD] to change 1st Calibration Weight value. Load the actual weight then press [TARE] to start span calibration.	If using test weight equivalent to full scale (FULL), the calibration shall be finished at this stage.
Load2 Calibration	_FULL -----	Load the 2nd test weight then press [TARE] to finish the calibration.	If 2nd test weight is not needed, you can skip this stage by pressing the [ON/OFF] to finish and exit the Calibration.
	End		

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