

ELECTRONIC CRANE SCALE

User Guide

Model : EHT

IMPORTANT

Please read this manual carefully before using the crane scale.

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I. Safety guide

Read carefully the following instruction and advice before using this scale.

- ◆ Over-loading this scale is harshly prohibited
- ◆ Refrain from long-time loading that could lead to excessive fatigue on loadcell used inside the scale. Excessive fatigue on loadcell would decrease the accuracy and shorten the life of scale.
- ◆ Check the shackle and hook regularly.
- ◆ Check the battery power level before/after use and recharge the scale in time.
- ◆ In order to maximize the battery life, periodic recharging is necessary for scales even not in use for long time.
- ◆ Do not try to repair the scale by yourselves.
- ◆ Use privately attached charger only.

II. Product characteristics

Model	Display	Characteristics
OCS-M	30mm(1.2")LED	High accuracy, small volume, portable.
OCS-L	30mm(1.2")LCD	

High quality: The process management is operated according to OIML R76, GB/T11883-2002, and obtain the European CE certificate.

Safety installation: Aluminum Die-Casting Case, high intensity hook and shackle, special loadcell for safety installation.

High reliability: Using high quality components on PCB to insure long time stability.

Wide applications: 30mm high character display, 25m distance eyeshot, can be used in storage industry, textile industry, metallurgy industry etc.

Simple operation: Check battery voltage automatically, wireless remote controller, separate battery space, small volume, and portable.

Complete function: Kg/Lb conversion, Hold, Tare, Division choice, Stability regulation, Accumulation/Search, Gross/Net conversion, parameter regulation etc.

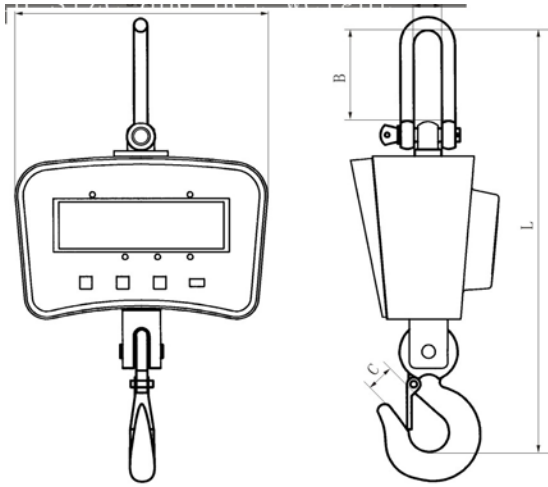
III. Specifications

Standard	GB/T11883-2002 《 Electrical Crane Scale》
Accuracy class	OIML class III
Display	30mm (1.2'') 5digits LCD/LED
Zero Range	4% F.S.
Tare Range	100% F.S.
Stable Time	≤10 seconds
Overload Indication	100% F.S. + 9e
Max. Safety Load	125% F.S.
Ultimate Load	400% F.S.
Battery Life	≥50 hours
Battery Type	Fully sealed Lead-Acid battery, 6V/5Ah
Adapter	DC9V/1500mA
Operating Temp.	- 10°C ~ + 40°C
Operating Humidity	≤85% RH under 20°C
Remote Controller Distance	Min. 10m
Battery of Remote Controller	5# battery, 1.5V x 2

IV. Basic parameters

MODEL	Max. capacity (kg/lb)	Min. weigh (kg/lb)	Division (kg/lb)	Total display counts (n)
OCS-M/L-01	100 /220	1 /2	0.05 /0.1	n=2000
OCS-M/L-02	200 /500	2/4	0.1 /0.2	n=2000
OCS-M/L-03	300 /700	2 /4	0.1 /0.2	n=3000
OCS-M/L-05	500 /1100	4 /10	0.2 /0.5	n=2500
OCS-M/L-1	1000 /2200	10 /20	0.5 /1	n=2000

V. Dimension and net weight



Max Capacity	L (mm)	A (mm)	B (mm)	C (mm)	N.W. (kg)
100kg	335	20	65	20	4.0
200kg	335	20	65	20	4.0
300kg	335	20	65	20	4.0
500kg	360	25	75	25	4.2
1000kg	360	25	75	25	4.2

VI. Operation guide

● TURN ON

Operation	Display	Illustration
【OFF/ON】	[[8.8.8.8.8]]	Display two times
	[[500.0]]	Display capacity two times
	[[U X.XX]]	Display the voltage of battery
	[[- - - -]]	Wait stable signal
	[[0]]	"STB" light, can hang the weight

Note: To guarantee the accuracy, leave the scale alone for 3-5 minutes after turning on.

● ZERO

Operation	Display	Illustration
Press 【→0←】 on scale	[[0]]	When turn on, generally display [[0]]
Press 【→0←】 on Remote Control	[[0]]	

● **TARE**

Operation	Display	Illustration
Press 【→T←】 on scale	【 0】	Press this key to deduct the weight of container, while "TARE" light on, the scale will show the net weight of load
Press 【TARE】 on controller	【 0】	

Note: As crane scale deduct the weight of container automatically, so it will show the net weight of load, you do not need to press this key to get net weight until you change the container or turn off.

● **CHECK BATTERY**

I	Press 【OFF/ON】 on scale, when turn on or turn off, it shows 【U X.XX】
II	Press 【OFF】 on Remote Control, when turn off, it shows 【U X.XX】
III	Press 【MR】【F1】 , it shows 【U X.XX】 , press 【MR】 return

● **HOLD THE WEIGHT READING**

Press "HOLD" key on the remote controller to hold the displayed weight reading. At this moment, "HOLD" light on, Press this key again will disable hold function.

● **LOW BATTERY WARNING**

When the battery voltage lower than 【U 5.80】, the display flash, but the scale can still work until the display show【-Lb-】, one minute later, it will turn off automatically, you need to recharge the battery to use again.

● **OVERLOAD WARNING**

The display will show 【-OL-】 once the load (Net + Tare) exceeds Max. capacity. Make sure that the load are within the capacity range.

● **POWER SAVING**

The display will show 【 -】 when the load are at stable status in excess of 15 minutes and revert to normal weighing readings while load changes. when the load are at stable status in excess of 60 minutes, the scale will turn off automatically

● **RECHARGING BATTERY**

1. Turn off, connect the adapter with 220V AC power supply , also insert the plug in the socket which located in the rear of scale. The light become green, it means it's recharging automatically, until the green light become red, meaning recharging is finished.
2. When you need to use crane scale hour after hour, take off the rear cover, change the battery with recharged battery.

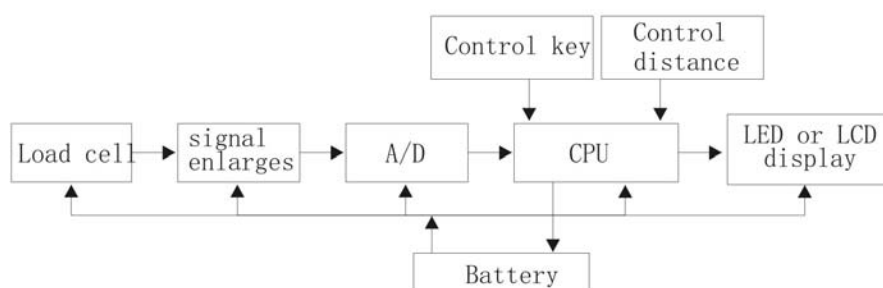
Attention: Generally, the time of recharging should not lower than 8 hours, this

scale have recharging protection function, long time recharging will not damage the battery.

● **TURN OFF**

I	Press 【OFF/ON】 on scale 2 seconds
II	Press 【OFF】 on controller 2 seconds
III	Stable after 15minutes, it show 【 - 】, after 60minutes, it turns off automatically.

VII. Electrical Principle Diagram



VIII. Display illustration

Display	Illustration
【-----】	Waiting for stable
【Err10】	Accumulated weight not exceed Min. weigh
【Err11】	Accumulated times exceed (can't accumulate after 30times)
【Err12】	Accumulated weight exceed (can't accumulate after 99999)
【 Clr】	Ask if you really want to delete accumulated weight, in case of error deletion
【noCLr】	Give up deletion
【88888】	Confirm deletion
【noACC】	No any accumulated value (when you check)
【SHIFt】	Conversion, when you press 【MR】 in Remote Control
【UX. XX】	The current voltage of battery
【SCALE】	Enter weight adjustment
【SEtUP】	Enter parameter adjustment
【UAdJ 】	Enter voltage adjustment
【-OL- 】	Overload warning
【-Lb- 】	Low battery warning
【 End 】	End, when parameter adjustment ready

【 OFF 】	Turn off
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IX. Troubleshooting guide

Trouble	Reason	Solution
No display when turn on	Battery damaged	Check battery
	Battery contact loosed	Tighten the contact
Display flash	Low battery	Recharge the battery
Can't turn on & off	【OFF/ON】 button damaged	Check and clean the button
Can't tare	【TARE】 button damaged	Check and clean the button
Recharge indicator light can't turn on	Battery charger damaged	Check the battery charger
	The Battery charger is not plugged properly	Insert plug again
Display isn't stable	The load is unstable	Stabilize the load
	Loadcell cable damaged	Check and replace loadcell
	The scale in damp environment for a long time	Put the scale in dry environment
The display don't show "0" when empty load	No enough time for heating the scale after turn on	After turning on, heating 3-5 minutes.
	Put the scale on ground for too long time	Scale should be hung
The error is intolerable	The scale isn't hung properly	Check the scale and sling.
Battery can't recharge	Battery damaged	Replace battery
	Outlet damaged	Replace the outlet
Remote distance shortened	Receiver window is dirty	Check and clean
	Remote Control's battery is low	Replace Remote Control's battery.

X. Precaution

- ✓ The crane scale is a kind of precise weighing instrument, pay attention on operation and maintenance.
- ✓ Rotate the load instead of crane scale itself if necessary for operation.
- ✓ Stop using the machine under the circumstances of thunder & rain.
- ✓ Check periodically if the clips/pins and screws of the crane scale are loose or broken before use.
- ✓ If low battery signal appears & LED annunciator goes green while charging, please check the battery.
- ✓ Place the crane scale in storage while not in use.

XI. Remote controller guide

◆Display Brightness

Operation	Illustration
【F1】	0~5, 0: no light, 1: Minimum light, 5: Maximum light (Default: 2)

◆ZERO

Operation	Illustration
【ZERO】	Display [0] when no load, ZERO lights on

◆HOLD

Operation	Illustration
【HOLD】	Hold the weight, HOLD lights on
【HOLD】	Convert to weighing situation, HOLD lights off

◆TARE

1. Direct Tare

Operation	Illustration
【TARE】	Display shows net weight, TARE lights on
【TARE】	Display shows gross weight, TARE lights off

2. Set tare weight in advance

Operation	Display	Illustration
【 MR 】	[SHIFT]	
【TARE】	[00000]	Current tare weight
	[****]	Input the tare weight
【 MR 】	[- ***]	Exit, TARE lights on, it will deduct tare weight automatically when weighing.

◆ACCUMULATION

Operation	Display	Illustration
【 M+ 】	[No***]	Current accumulation times
	[H****]	Rear four digit of current accumulated value
	[L****]	Front four digit of current accumulated value

Note: After display two times, it will return to weigh situation automatically, you also can press 【 MR 】 to return directly.

◆CLEAR

Operation	Display	Illustration
【CLEAR】	[CLr]	Display blink, please confirm if you want to delete accumulated value
【CLEAR】	[noCLr]	Cancel deletion
【 MR 】	[88888]	Confirm deletion

◆SEARCH

Operation	Display	Illustration
【 MR 】	[[No***]]	Current accumulation times
【 M+ 】	[[*****]]	Current weight
	[[H****]]	Rear four digit of current accumulated value
	[[L****]]	Front four digit of current accumulated value
【 MR 】	[[0]]	Return to weigh

Note: Press【TARE】and 【→0←】 can search every time weight and accumulated value, press 【 MR 】 return.

◆ZERO DISPLAY

Operation	Display	Illustration
【 MR 】	[[SHIFT]]	
【→0←】	[[***]]	Display current zero value

◆Kg/lb conversion

Operation	Display	Illustration
【 MR 】	[[SHIFT]]	Un=0:kg "lb" lights off
【HOLD】	[[Un= *]]	Un=1:lb "lb" lights on,

◆SEARCH OVERLOAD TIMES

Operation	Display	Illustration
【 MR 】	[[SHIFT]]	
【CLEAR】	[[OL=**]]	Display times of overload

◆VOLTAGE DISPLAY

Operation	Display	Illustration
【 MR 】	[[SHIFT]]	
【 F1 】	[[U X.XX]]	Display show current voltage of the battery
【 MR 】	[[0]]	Return to weigh

◆TURN OFF

Operation	Display	Illustration
【OFF】	[[OFF]]	
	[[U X.XX]]	Displays current voltage of battery then turn off