

**OCS**

**series crane scale**

**user manual**

**Before using, please read the careful reading this usage manual.**

## **CATALOGUE**

I The safety guides.....	1
II Product characteristics.....	2
III Main technique function .....	2
IV Basic parameter .....	3
V Main size and net weigh .....	3
OCS-A/OCS-L	
OCS-M/OCS-LM	
OCS-H	
VI Operation method.....	4
VII Electric principle diagram.....	5
VIII Sign elucidation.....	6
IX Maintain simple.....	6
X Hint.....	7
XI Remote control usage elucidation.....	8

### **I The safety guides**

Please before using your Crane scale, it is careful to read the following suggestion.

- \*Strictly forbid the usage while overloading.
- \*Long crane weight, will lower the accuracy of crane scale and shorten the usage life.
- \*Before using, please check the battery voltage.
- \*Must often check the safety between hook, ring and conjunction parts.
- \*Long time do not use, also should periodically maintain the battery.
- \*Do not try the one open and fix the crane scale.
- \*Need to be used the specialized power adapter.

## II Product characteristics

Model	Display	Characteristics
OCS-XZ	30 mm (1.2") LED	The applicability is extensive
OCS-XZC	30 mm (1.2") LCD	
OCS-M	30 mm (1.2") LED	The Convenience and small capacity
OCS-LM	30 mm (1.2") LCD	
OCS-DXH	30 mm (1.2") LED	For steel industry

### Function

- \*HOLD function
- \*Gross/Net weight display convertible.
- \*Kg/lb convertible.
- \*Weight accumulation function
- \*Auto shut function
- \*Remote control calibration
- \*Easy to replace battery
- \*Remote distance: min.10m.

## III Main technique function

Accurate a grade	OIML III
Display	30mm (1.2") LED or LCD
The scope of TARE	100%F.S.
Display stability time	<10S
Overload the warning value	Max Cap. +9e
The safety loads	125%F.S.
The extreme limit loads	400%F.S.
Continuous usage time	≥80 hours
Battery (OCS-A/L/H)	6V/10Ah
Battery (OCS-M/LM)	6V/5Ah
Power adapter	AC220V/DC9V1.5A
Usage temperature scope	-10°C ~ +40°C
Usage humidity scope	20°C, ≤90%RH

### The steel water to scale min safe distance

Steel water temperature	Safe distance
1000°C	1200mm
1200°C	1500mm
1400°C	1800mm
1600°C	2000mm

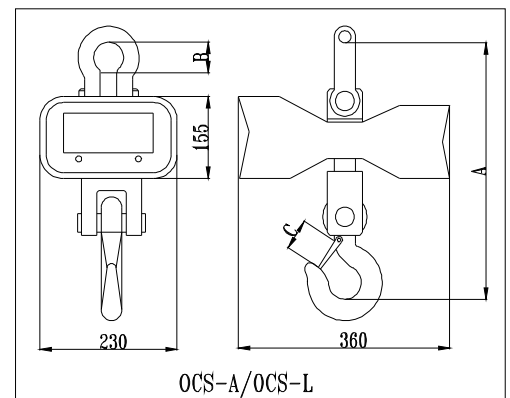
#### IV Basic parameter

Max Cap (kg/lb)	Min Cap (kg/lb)	Division (kg/lb)	Number (n)
100/220	1/2	0.05/0.1	2000
200/500	2/4	0.1/0.2	2000
300/700	2/4	0.1/0.2	3000
500/1100	4/10	0.2/0.5	2500
1000/2200	10/20	0.5/1	2000
2000/4500	20/40	1/2	2000
3000/7000	20/40	1/2	3000
5000/1100	40/100	2/5	2500
10000/22000	100/200	5/10	2000
15000/35000	100/200	5/10	3000
20000/45000	200/400	10/20	2000

#### V The main size and net weight

##### OCS-A/OCS-L

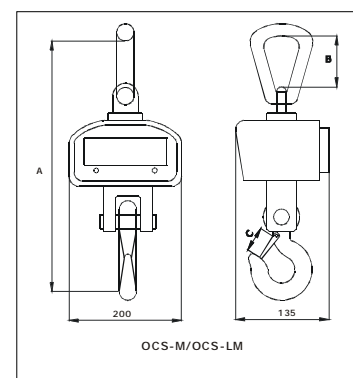
Model	A (mm )	B (mm )	C (mm )	N.W. (kg)
OCS-05-A/L	420	65	35	12
OCS-1-A/L	420	65	35	12
OCS-2-A/L	420	65	35	12
OCS-3-A/L	600	80	45	14
OCS-5-A/L	730	100	55	24
OCS-10-A/L	850	120	70	44
OCS-15-A/L	900	140	70	60
OCS-20-A/L	900	140	70	60



Specifications subject to improvement without prior notice

##### OCS-M/OCS-LM

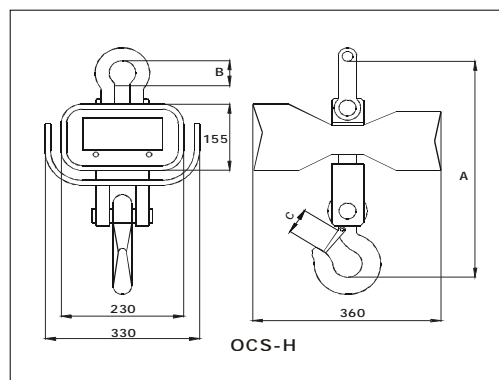
Model	A (mm )	B (mm )	C (mm )	N.W. (kg)
OCS-01-M/LM	360	80	20	4.0
OCS-02-M/LM	360	80	20	4.0
OCS-03-M/LM	360	80	20	4.0
OCS-05-M/LM	380	85	25	4.5
OCS-1-M/LM	380	85	25	4.5



Specifications subject to improvement without prior notice

### OCS-H (For steel industry)

Model	A (mm )	B (mm )	C (mm )	N.W. (kg)
OCS-1-H	600	80	45	18
OCS-2-H	600	80	45	18
OCS-3-H	730	100	55	28
OCS-5-H	850	120	70	48
OCS-10-H	850	130	70	64
OCS-15-H	900	140	70	68



Specifications subject to improvement without prior notice

## VI Operation method

### \*Turn on

Press **【OFF/ON】** ,display the battery voltage  $[\text{U } 6.**]$  .

Display  $[\text{00000}] \sim [\text{99999}] - [\text{0}]$  kg, to this , can hang the weight.

### \*Creation zero method

	Operation	Display	Hint: After open, general display $[\text{0}]$ , if Not for $[\text{0}]$ ,can operate according to this.
1	Press <b>【TARE】</b>	$[\text{0}]$	
2	Press <b>【←→ 0 ←→】</b>	$[\text{0}]$	

### \*Deduct the tare method

Operation	Display	Hint: After hanging up tare, press <b>【TARE】</b> ,display $[\text{0}]$ , Then hanging the weight, display net weight.
Press <b>【TARE】</b>	$[\text{0}]$	

### \*Check battery

I	Press <b>【OFF/ON】</b> ,display $[\text{U } 6.**]$ .
II	Press <b>【OFF】</b> , display $[\text{U } 6.**]$
III	Press <b>【MR】</b> , display $[\text{SHIFT}]$ Press <b>【F1】</b> , display $[\text{U } 6.**]$ press <b>【MR】</b> Enter.

Hint: General, battery should at  $[\text{U } 6.**]$  above.

### \*Refresh the method

1. Off, the charger line inserts the rear of CRAE SCALE socket inside, the light on the rear is green, refreshing the beginning, being light change is red, refresh the be over.
2. Can unload the battery set to refresh alone.

Hint: refresh time generally longer than 8 hours, long hours refresh to can't have no damage to the battery.

**\*The warning of low voltage in battery**

When battery voltage lower than [ U 5.80 ], the display appears flicker, but can still work, after lowest voltage, can ' t display, Please refresh.

**\*Overload the warning**

When the weight (tare + net weight) exceeds the Max Cap, display [ OVER ], keep the instauration normal. For the sake of usage that guarantees the Crane scale the safety, prohibition exceed to load the work.

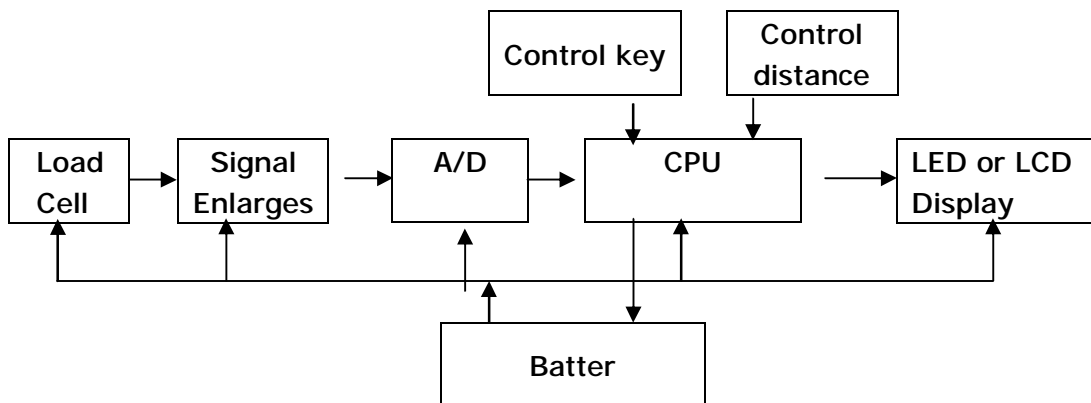
**\*Save the energy function**

Static over 15 minutes after, display [ - ] , be the weight after changing, instauration display actual weight.

**\*The method of off**

I	Press <b>【OFF/ON】</b> ,3s.
II	Press <b>【OFF】</b> ,3s.
III	Static 15 minutes, display [ - ] , static 60 minutes, off.

**VII Electric principle diagram**



## VIII Sign elucidation

Display	Hint
〔SCALE〕	Input adjusts
〔 OuEr 〕	Overload the warning
〔 AdErr〕	Load cell damage
〔CALSP〕	Enter the adjustment
〔 ----- 〕	Adjusts
〔 CLr 〕	Clearance
〔 SHIFt 〕	Conversion
〔 U 6.** 〕	Battery voltage
〔 End 〕	End
〔 OFF 〕	Close

## IX Maintain simply

Phenomenon	Reason	Solution
Do not display	Battery set is bad Battery buttons up loose	Check battery set Tight afresh
The display gleams	The voltage is low	Off to Refresh
Can't off/on	【OFF/ON】 key damage	Replace the key
Can't deduct tare	【TARE】 key damage	Replace the key
The battery light is not bright	Power adapter damage The power adapter did not put good	Check power adapter Check electric outlet
The display is unsteady	The loads is unsteady Load cell exceeds to load Damp influence in scale	The stability loads Replace the load cell Deposit in the dry environment
Empty scale the display is not a "0"	After open, use immediately Scale long time on the ground	Open, still3~5minutes Hang to deposit
The weight error is big	Hang the method wrong	The hook must can swing
The battery voltage can't go up	The battery is bad The electric outlet is bad	Replace the battery Replace the electric outlet
Remote distance id short	Receive window too dirty The remote control battery is bad	Make sweep Replace the battery

## X Hint

1. Must use the right usage with maintain the method?
2. If hang the weight changes direction, can't push directly the Crane scale to revolve.
3. When the outdoors, if meet the thunder and lightning and rain etc. circumstance, must pause usage.
4. Check each part if crane scale before using, in good condition.
5. When the display battery voltage is low, and the light is red, should check the battery whether damage, please replace the same specification battery.
6. When do not use, please hang to deposit.

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## XI Remote control usage elucidation

\* **【→0←】**

Press <b>【→0←】</b>	Make empty scale display $\llbracket 0 \rrbracket$ kg
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\* **【TARE】**

1. Deduct the tare directly Press

Press <b>【TARE】</b>	'TARE'light show, display net weight
Press <b>【TARE】</b>	'TARE'light not show, display Gross weight

2. Input the tare in advance:

Operation	Display	Elucidation
Press <b>【MR】</b>	$\llbracket \text{SHIFT} \rrbracket$	Conversion
Press <b>【TARE】</b>	$\llbracket 00000 \rrbracket$	Hint input tare
Press <b>【TARE】</b> <b>【→0←】</b>	$\llbracket \text{*****} \rrbracket$	Input tare
Press <b>【MR】</b>	$\llbracket -\text{***} \rrbracket$	Tare, display net weight
Press <b>【→0←】</b>	$\llbracket 0 \rrbracket$	Clearance tare

\* **【M+】**

1. at 'STEADY' the light is show after, press **【M+】** , the automatic memory in number of now combines this time total amount in display value, 3s return behind.

2. Search

Operation	Display	Elucidation
Press <b>【MR】</b>	$\llbracket \text{SHIFT} \rrbracket$	Conversion
Press <b>【M+】</b>	$\llbracket \text{no.***} \rrbracket$	Aggregate number of times
Press <b>【TARE】</b>	$\llbracket \text{H****} \rrbracket$	4:total weight front
Press <b>【TARE】</b>	$\llbracket \text{L****} \rrbracket$	4:total weight behind
Press <b>【TARE】</b>	$\llbracket \text{no.1} \rrbracket$	Weigh the number finally
Press <b>【TARE】</b>	$\llbracket \text{*****} \rrbracket$	The weight that is finally
Press <b>【TARE】</b>	$\llbracket \text{no.2} \rrbracket$	It is previous to weigh the number
Press <b>【TARE】</b>	$\llbracket \text{*****} \rrbracket$	Previous single weight
.....		
Press <b>【TARE】</b>	$\llbracket \text{End} \rrbracket$	End search, return

Hint: 1. The total weight =  $\llbracket \text{H****} \rrbracket \llbracket \text{L****} \rrbracket$  kg.

- Press **【ZERO】** can search backward, press **【MR】** can end search.
- Cutting the electricity can keep automatically, at proceeding the total amount front, must press **【CLr】** first, clearance originally number, prevent the total amount mistake.
- Complete once total amount after, must wait until the display  $\llbracket 0 \rrbracket$  , then can precede the another time operation, will can't continue otherwise.



\* **【HOLD】**

Press <b>【HOLD】</b>	The weight hold, 'HOLD'light is show
Press <b>【HOLD】</b>	The weight does not Hold.

\* **【CLEAR】**

Press <b>【CLEAR】</b>	Display <b>【CLr】</b> .
Press <b>【MR】</b>	Enter.
Press <b>【CLEAR】</b>	Do not want the clearance, return.

\*Battery voltage

Press <b>【MR】</b>	Display <b>【SHIFT】</b> .
Press <b>【F1】</b>	Display battery voltage <b>【U*.**】</b> .
Press <b>【MR】</b>	Enter.

\*kg/lb (Special indent)

Press <b>【MR】【HOLD】</b>	Display New unit (lb) .
Press <b>【MR】【HOLD】</b>	Display Originally unit (kg) .

\* **【OFF】**

Press <b>【OFF】</b>	Loosen after display <b>【OFF】</b> .
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\*Hint

1. Can't knock remote control.
2. If discovers control distance shortening (<6m) , please replace the battery.
3. If at crane scale to receive the window way up dirty, will affect to receive the result.



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