

Operation Instruction

OCS Digital Crane



PLEASE READ ALL INSTRUCTIONS PRIOR
TO USING THIS PRODUCT



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Content

1. About Digital Crane	1
2. Technical Data	2
3. Function of key	2
4. Starting process	3
5. Parameter Setting	4
6. Main technical performance	5
7. Calibration	6
8. Battery charging instruction	6
9. Notice during operation	7
10. Warranty	8

About Crane Scale

OCS digital crane is composed of lifting component, high precision sensor, A/D converter and display. The 5-bit 1.2-inch (30mm word height) ultra-bright digital display is clear and bright and can be read clearly at a distance. Due to the unique intelligent digital filter which is anti-fluctuation, anti-vibration and anti-swing, the crane scale features accurate reading stability (stability time <5 seconds). It also has the following functions and features:

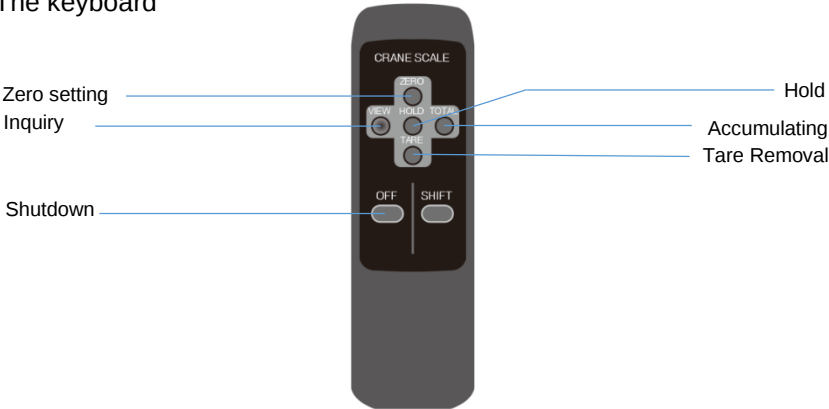
1. Instant tare deduction and delay tare deduction.
2. Automatic accumulation
3. The low power consumption design extends the life of the battery. For LED display, the full battery can work continually for 60 hours. It has overdischarge protection circuit to avoid the battery damage or shortened service life caused by overdischarge. When shut down or opening the crane scale, there is a battery level display, and you can make sure whether the battery needs to be recharged.

OCS crane scale has high measurement accuracy, stability and is easy to use, suitable for casting industry, warehouses, mines, docks and other factories.

1.Technical parameters

Remove tare scope	100% of maximum loading capacity
Initial zero-setting scope	± 20% of max. loading capacity
Manual zero-setting scope	± 4% of max. loading capacity
Zero tracking scope	0.5e (default value)
Back to zero scope	5e
Zero scope	0.25e
Over voltage warning	7.5V
Low voltage warning	5.6V
Under voltage shutdown	5.4V

2. The keyboard



Working mode	Keys		Key Press	Function
Weighting model	Main board	[On/Off]	Short press	Zero-setting
			Long press	Open/Shutdown the crane
		[Accumulating (total)]	Short press	/
			Long press	Query
	Remote Control	[Zero-setting]	Short press	Zero-setting
		[Query]	Short press	Enter the query mode

Working	Keys		Key press	Function
Weighting Mode	Remote control	[Hold]	Short press	Hold indicating value
			Long press	Enter password mode
		[Accumulating (total)]	Short press	Accumulating
		[Tare removal]	Short press	Tare removal/Tare reset
		[On/Off]	Long press	Open/Shutdown the crane
Record and Query Mode	Remote control	[Query]	Short press	Exit query mode
		[Hold]	Long press	Clear all records
		[Zero-setting]	Short press	View previous record
		[Tare removal]	Short press	View next record
Password Mode Parameter Setting and Calibration	Remote control	[Zero-setting]	Short press	Increase number/Previous data
		[Query]	Short press	Move flashing cursor to left
		[Hold]	Short press	Confirm/Entering the next data setting
		[Accumulating (total)]	Short press	Move flashing cursor to right
		[Tare removal]	Short press	Decrease number/Next data
		[On/Off]	Short press	Enter radix point
		[On/Off]	Long press	Stop the calibration

3. Put the crane scale into service

3.1 Press the ON/OFF button on body of crane scale (Buzzing).

3.2 System Self-test

3.3 System Warm-up, Count down

3.4 Battery voltage checking, Voltage display

3.5 Initial zero-setting

3.6 Enter Weighting Mode

4. Accumulating Total and Query

Under weighting mode, the indicating value can be saved as accumulating when the zero-setting is finished and the weighting value is stable. Short press [Total]. If “total” is displayed on screen, the volume is saved successfully. If “err” is displayed on screen, it means the indicating value is unstable or the zero-setting is not finished. When more than 10 indicating values are saved, the earliest record will be overwritten.

Under weighting mode, short press [Query] to enter Query Mode for checking 10 indicating values. Now, the sequence number “NO.10” will be indicated on screen. Press [Tare]/[Zero-setting], and Page up/Page down to show the value. Repeat the above steps to indicate the next record.

5. Parameter Setting

Key on Remote control	Functions	Display	Description
Long press [Hold]	Entering Password Mode	P****	
Short press [direction key]	Entering password	P----	4-digit password
Short press [Hold] to enter; Short press [Zero-setting]/[Tare] to modify	Division	d 2	Division option: 0.001, 0.002, 0.005, 0.01, 0.02, 0.05, 0.1, 0.2, 0.5, 1, 2, 5, 10, 20, 50
Same as above	Automatic Shutdown time	oFF 5	Automatic shutdown option: Never shutdown, 5 minutes, 10 minutes, 15 minutes, 30 minutes, 60 minutes
Same as above	Automatic standby time	SLP 5 8	Standby time option: Never Standby, 5 seconds, 10 seconds, 15 seconds, 30 seconds, 60 seconds.
Same as above	Display brightness	LU 2 8	Option: 1. Low; 2. Medium; 3. High

Same as above	Filtering intensity	Ft 1	Option: 0 the weakest; 1. Weak; 2. Medium; 3. Strong; 4. The strongest
Short press [Hold] to enter; Press [Direction key],[On/Off] to enter the value.	Gravity acceleration	61000	Any value can be entered.
Short press [Hold]	Exit the parameter setting	End	

6. Main Technical Data

6.1 Main Data

Operating temperature range: -10°C~+40°C

Relative humidity: ≤85% RH

Word Height: 30mm/5-digit

Safety overload: 150% FS

Accuracy: III

Reading Stability Time: <5s

6.2 Detailed Technical Data

Capacity (kg)	Min. Capacity (kg)	Division E (kg)	Division Reading n	Capacity (kg)	Min. Capacity (kg)	Division E (kg)	Number of division n
50	0.4	0.01	2500	3000	20	0.5	3000
100	1	0.02	2000	5000	40	1	2500
200	25	0.05	2000	10000	100	2	2000
300	2	0.05	3000	15000	100	5	3000
500	4	0.1	2500	20000	200	5	2000
1000	10	0.2	2000	30000	200	5	3000
2000	20	0.5	2000	50000	400	10	2500

6.3 Charge Indication

When the battery capacity is 5.6, the LED display will be flash to indicate the battery needed to be charged; When the battery capacity is 5.4, the power supply will be cut automatically to prevent over-discharge.

7. Calibration

Key on remote control	Function	Display	Description
Long Press [Hold]	Enter Password Mode	P****	
Short Press Direction Key	Enter Password	P----	4-digit password
Short Press [Hold] Short Press [Direction key] to enter the values; Short Press [On/Off] to add or delete radix point	Enter Max. weighting	03000	Any value can be entered.
Short Press [Hold]	Zero-setting	LoAd0	
Shot Press [Hold]	Zero code	12345	
Short Press [Hold]	Calibrating weight	LoAd1	
Load the weight, Short Press [Hold],	Short Press [Direction key] to enter the values; Short Press [On/Off] to add or delete radix point	00000	Any value can be entered.
Short Press [On/Off]	Stop calibration	End	

8. Battery Charging Instruction

8.1 Rechargeable battery: 6V4.5AH; Charger: DC6V/0.5AH

8.2 When the undervoltage indicator is on, the battery capacity is low and should be recharged.

8.3 When the battery capacity is very low, the crane scale will be shutdown automatically to prevent the battery. The battery should be recharged for 5 hours until the indicator of charger becomes green.

8.4 After charging, the screen display is still not normal, and battery is failure and should be replaced.

8.5 Frequent charging will extend the battery life. The recommended charging frequency is one time per week, even the crane scale has not been used for a long time. The specification of charger should be correct to avoid the battery damage. When charging, please turn off the digital crane scale to reduce the time to recharge.

9. Attention during Operation

9.1 Keep the anchor point, hook, crane scale and load on same vertical center line.

9.2 It is not allowed to hit the crane scale.

9.3 Check every screw and connecting part periodically to make sure whether there is loosening or failing off.

9.4 When storage, shutdown the crane scale, keep in suspended state, in ventilated dry place.

9.5 Before use, the battery should be charged for 8 hours.

9.6 When use the crane scale outdoor, shutdown the scale in case of lightning weather.

9.7 When lifting, if change the lifting direction or lifting position, please push the load, not crane scale.

9.8 When using the charger, make sure it is in good contact.

9.9 Before use, keep the crane scale in warm-up for 10-15 minutes.

9.10 When lifting, keep the balance of load.

9.11 When lifting, keep the crane and hoist in same vertical line.

9.12 It is not allow to lift the load in angle.

9.13 Overloading is not allowed.

9.14 When not in use, remove the crane scale,

9.15 It is not allowed to keep the crane scale under stress for a long time. It will reduce the service life of sensors.

9.16 When lifting steel pipe or long length object, extend the reading stability time.

9.17 When indicating the low voltage, charge the battery immediately.

9.18 Each charging time is not less than 10 hours.

9.19 Calibrate the weighting of crane scale every half year.

9.20 **OVER** means overload.

Warranty

12 months Warranty - During the warranty period, if the product fails, the company will provide spare parts and repair for free after confirmation.

The following conditions are not covered by the warranty.

1. The customers modify or replace the spare parts by themselves.
2. The damage caused by improper installation or use or overloading.
3. The battery is not covered by the warranty.



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