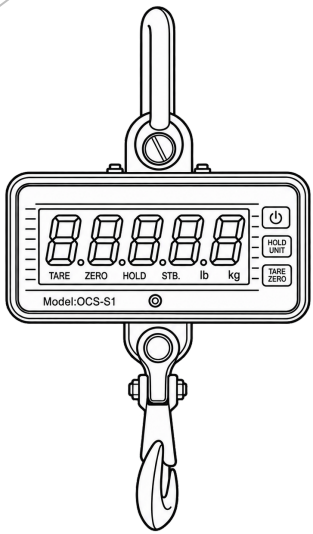
MARSDEN

USER MANUAL

OCS-S1

High Resolution Digital Crane Scale

Please take time to read these instructions before starting to use the scale



Please keep the instruction manual at hand and follow instruction for use.

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1.0 Safety Guide

For good performance and precise measurement, be careful with daily operation and maintenance.

2.0 Features

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

- **Superb Quality.** Strictly in accordance with OIML R76, Chinese GB/T11883-2002 national standards, and European CE directives.
- **Great Safety.** Aluminum-casting case, high firm hook and shackle, dedicated weighing loadcell for safety installation.
- **Strong Reliability.** Cutting-edge technology, quality integrated circuit for high performance and long-time stability.
- **Broad Applicability.** Popular and applicable in storage, textile, metallurgy industry, and so forth.
- **Complete Function.** Resolution switch, unit conversion, auto power-off, battery inspection, etc.

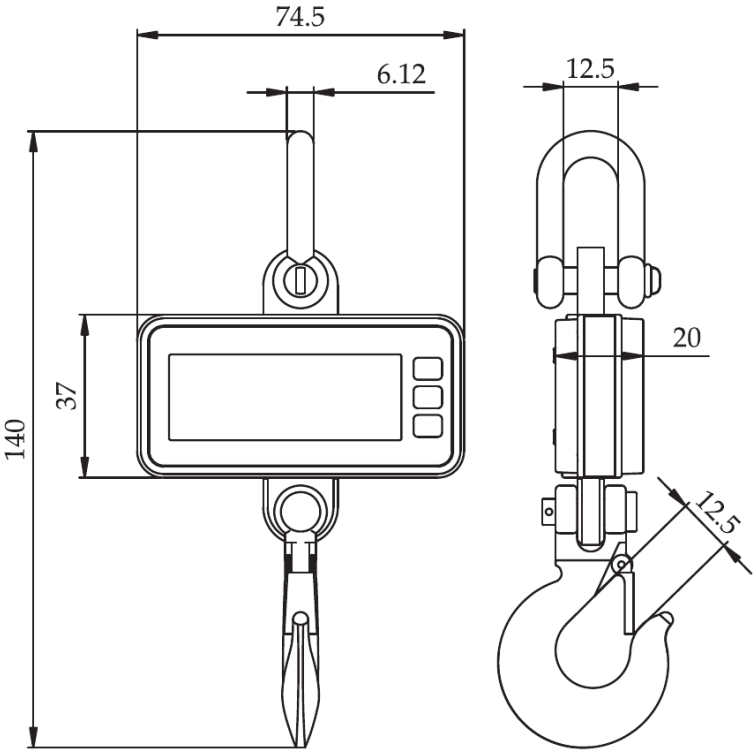
3.0 Specifications

Specification	Value
Accuracy	Chinese GB/T 11883-2002 CIII eqv. OIML R76
Tare Range	100% F.S.
Auto Zero	±20% F.S.
Manual Zero	±4% F.S.
Stable Time	≤10sec
Overload	100% F.S. + 9e
Safety Load	120% F.S.
Ultimate Load	400% F.S.
Battery	4*AA 1.5V batteries
Display	25.4mm (1inch) ultra-bright LED
Op. Temp.	-10°C ~ +40°C
Op. Humidity	20°C ≤90%

4.0 Capacity

Model	Max. Cap.	Min. Cap.	Res.	Division
OCS-05-S	500kg	4kg	0.2kg	2,500
OCS-1-S	1,000kg	10kg	0.5kg	2,000

5.0 Dimensions & Weight



Shown in mm.

6.0 Display & Keys

Scale Keys

Symbol/Key	Name	Function
	On/Off	Short pressing: Cancel & return to weighing mode Long pressing: Power-on / Power-off
	Tare / Zero	Short pressing: Tare in/out; Increase digit Long pressing: Zero; Move digit
	Hold / Unit	Short pressing: Lock/unlock; Confirm & next Long pressing: Unit Switch; Input / cancel decimal point

Remote Keys

Symbol/Key	Name	Function
	Zero	Same as long pressing Tare / Zero
	Tare	Same as short pressing Tare / Zero
	Hold	Same as short pressing Hold / Unit
	Acc.	Accumulate weight Decrease flashing digit
	Del.	Delete last weight Clear all weight Left scroll flashing digit
	F1	View Input / cancel decimal point
	F2	Unit Switch
	Off	Long press to power off Return to weighing mode
	2nd	2nd function

Indicators

LED	Name	Note
STB	Stable	lit when weight is stable
ZERO	Zero	lit when weight is at zero
TARE	Tared	lit when scale is tared
HOLD	Hold	lit when scale is locked
lb	lb	lit when unit is lb
kg	kg	lit when unit is kg

Message

Message	Stand for / Note
-----	detect weight
SETUP	User Setup Menu
bAt99	BATtery - battery life percentage
End	END - save and exit
oFF	OFF - power off
ovEr	OVERload - overloading
Err	ERRor - invalid operation
ACC	ACCumulate - accumulate weight
dEL	DELete - delete last weight
CLr	CLear - delete all weight

7.0 Operations

Power On/Off

Long press On/Off to power-on scale. Scale perform initialization and power-on test; 88888 shows twice, then capacity 1000 shows, battery life percentage bAt99 shows, weight detection ----- shows and then auto zero.

For information about Auto-Zero, refer to Scale Configuration in Technical Manual.

Long press On/Off or the remote Off key to power-off scale. Battery life percentage bAt99 shows, off message oFF shows, and then cut off power.

When 3 batteries voltage is lower than 3.2V, scale will auto power-off itself. Please replace the dead batteries with new ones.

Zero

Long press Tare / Zero, or press the remote Zero key, to zero. Z shows.

For information about Manual-Zero Range, refer to Scale Configuration in Technical Manual.

Tare In/Out

In gross mode, press Tare / Zero, or press the remote Tare key, to tare in. T shows.

Tare will reduce the apparent overload range of scale. For example, if a 500*0.2kg scale has a 100kg container as its tare, the scale will overload at a new weight of 401.8kg (500 - 100 + additional 9 divisions).

In net mode, press Tare / Zero, or press the remote Tare key, to tare out. T disappears.

Lock/Unlock

Press Hold / Unit or the remote Hold key to lock screen. H shows.

Press Hold / Unit or the remote Hold key again to unlock screen. H disappears.

Accumulate

Press the remote Acc. key to accumulate current weight.

ACC shows, indicating weight is accumulated. Scale uses displayed weight, so gross or net weight is added into the same accumulator.

View

Press the remote F1 key to enter View mode.

Display flashes accumulated weight.

Press Hold / Unit or the remote Hold key to view high 5-digit or low 5-digit.

Press On/Off or the remote Off key to exit View mode.

Delete Last Weight
Press the remote Del. key to delete last accumulated weight.

dEL shows, indicating last accumulated weight is deleted. Delete function only deletes the last weight.

Clear All Weight
Press the remote 2nd key first and then press the remote Del. key to clear all accumulated weight.

CLr shows, indicating all weight is cleared.

Unit Switch
Long press Hold / Unit or press the remote F2 key, to switch unit in between kg, lb, and User Unit.

When unit is kg, KG shows. When unit is lb, LB shows. When unit is User unit, UN shows.

For more information about User Unit, refer to Scale Configuration in Technical Manual.

8.0 User Setup

Press the remote 2nd key first and then press Hold / Unit or the remote Hold key to enter User Setup menu. SETUP shows.

Auto-Off Timing
Press Hold / Unit or the remote Hold key to enter Auto-Off Timing. oFF-- shows.

Press Tare / Zero or the remote Zero or Del. keys to change timing value.

Auto-Off Timing can be set to: 0 (disabled), 5 (5min), 10 (10min), 15 (15min), 30 (30min), 60 (60min). It is disabled by default.

Auto-Off function maximizes scales battery life against peoples carelessness not to power off scale when its not working.

Auto-Off starts countdown timer when theres no action or load is stable. Any key pressing or motion in load restarts countdown timer.

Display Brightness
Press Hold / Unit or the remote Hold key to enter Display Brightness. br-- shows.

Press Tare / Zero or the remote Zero or Del. keys to change brightness value.

Display Brightness can be set to: oFF (disabled), 1 (dim), 2 (normal), 3 (bright).

Dim display brightness saves battery power dramatically.

Idle Mode Timing
Press Hold / Unit or the remote Hold key to enter Idle Mode Timing. idL-- shows.
Press Tare / Zero or the remote Zero or Del. keys to change timing value.
Idle Mode Timing can be set to: 0 (disabled), 5 (5sec), 10 (10sec), 15 (15sec), 30 (30sec), 60 (60sec). It is 30sec by default.

To maximize battery life, scale automatically enters Idle Mode, when theres no action or the load is stable. In Idle Mode, scale works in low-power consumption status. Any key pressing or motion in load wakes up scale from Idle Mode.

Press Hold / Unit or the remote Hold key to exit User Setup.

9.0 Battery Maintenance

To maximize battery life, please note the following battery maintenance guide.

- This scale is powered by a 4 AA 1.5V batteries.
- Battery houses at the rear of scale can be opened by screwing off screws.
- In order to conserve battery life, enable Auto-Off and Idle Mode, dim display brightness.
- When 4 batteries voltage is lower than 3.5V, scale will auto power-off itself. Please replace the dead batteries with new ones.

10.0 Troubleshooting

Simple problems can be resolved as below listed solution. If problems still exist, please contact your local representative.

Symptom	Possible Cause	Suggested Solution
not power-on after On/Off is pressed	discharged / defective battery	check battery and replace
not power-on after On/Off is pressed	defective On/Off key	press harder and keep pressing for 2s
not power-on after On/Off is pressed	defective power cable	open front panel, check power cable
not power-on after On/Off is pressed	defective mainboard	contact representative
display flashes	discharged battery	replace battery
no action taken after key pressed	scale is disturbed	re-plug power cable
no action taken after key pressed	defective key	contact representative
weight reading not stable	load in motion	keep load stable
weight reading not stable	weak Anti-Motion	change Anti-Motion level
weight reading not stable	damped loadcell or mainboard	dry loadcell or mainboard
weight reading not zero when no load	defective mainboard	contact representative
weight reading not zero when no load	discharged battery	replace battery
weight reading not zero when no load	loadcell stressed too long	hang scale in storage
weight reading not zero when no load	loadcell drifts	contact representative
large error in weight reading	scale not zeroed before applying load	Manual Zero scale before loading
large error in weight reading	wrong unit	switch to correct unit
large error in weight reading	require calibration	calibrate scale
large error in weight reading	defective loadcell or mainboard	contact representative

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