OCS-S High Resolution Digital Crane Scale

User's Guide

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Version: V1.0B-2

Please read this manual carefully before using.

1. Safety Guide

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

- (i) Do NOT overload scale. This will damage loadcell and void warranty.
- (i) Do NOT leave load hung on the scale for long. This will decrease scale's accuracy and shorten loadcell's life.
- (i) Inspect shackle and hook before using. Check clips, pins and screws regularly.
- (i) Check battery frequently. When scale runs out of power, replace the dead batteries with new ones.
- (i) Rotate load rather than scale if needed.
- (i) Do NOT use scale under thunder or rain.
- (i) Hang scale on shelf in dry and well-ventilated room. Do NOT place scale on the ground directly.
- **(i)** Do NOT attempt to repair scale yourself. Contact your local representative.

2. Features

This scale is a combination of sound and proven mechanical design, with today's 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.

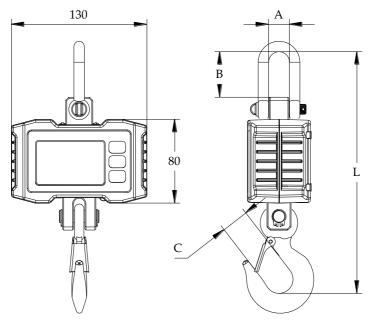
3. Specifications

Accuracy	Chinese GB/T 11883-2002 CIII eqv. OIML R76	
Tare Range	100% F.S.	
Zero Range	4% F.S.	
Stable Time	≤10sec	
Overload	100% F.S. + 9e	
Safety Load	120% F.S.	
Ultimate Load	400% F.S.	
Battery	3*AA 1.5V batteries.	
Pathowy I ifo	≥65hour (tested by dedicated batteries,	
Battery Life	backlight level 3, always lit)	
Display	22mm/11mm HTN LCD with backlight	
Op. Temp.	-10°C ~+40°C	
Op. Humidity	20°C ≤90%	

4. Capacity

Modal	Max. Cap.	Min. Cap.	Res.	Division
OCS-01-S	100kg	1kg	0.05kg	2,000
OCS-02-S	200kg	2kg	0.1kg	2,000
OCS-03-S	300kg	2kg	0.1kg	3,000
OCS-05-S	500kg	4kg	0.2kg	2,500
OCS-1-S	1,000kg	10kg	0.5kg	2,000

5. Dimension & Weight



Modal	A/mm	B/mm	C/mm	L/mm	N.W./kg
OCS-01-S	20	43	25	220	1.0
OCS-02-S	20	43	25	220	1.0
OCS-03-S	20	43	25	220	1.0
OCS-05-S	20	43	25	220	1.0
OCS-1-S	20	43	27	230	1.4

6. Display & Keys

Scale Keys

	Key	Name	Function	
			Short pressing: Cancel & return to	
_	(1)	On/Off	weighing mode	
			Long pressing: Power-on / Power-off	
	TARE	7FDO are	Short pressing: Tare in/out; Increase digit	
	ZERO		Long pressing: Zero; Move digit	

Remote Keys

Key	Name	Function	
	Zero	Same as long pressing TARE ZERO	
	Tare	Same as short pressing TARE	
	Hold	Lock/unlock; Confirm & next	
	Acc.	Accumulate weight	
	Acc.	Decrease flashing digit	
	Del.	Delete last weight	
		Clear all weight	
		Left scroll flashing digit	
0	F1	View	
PI	ГІ	Input / cancel decimal point	
O F2	F2	Unit Switch	
	Off	Long press to power off	
<u> </u>		Return to weighing mode	
	2nd	2nd function	

Indicators

LED	Name	Note	
5	Stable	shown when weight is stable	
7	Zero	shown when weight is at zero	
T	Tared	shown when scale is tared	
H	Hold	shown when scale is locked	
LB	lb	shown when unit is lb	
K5	kg	shown when unit is kg	
LIN	UN	shown when unit is User Unit	

Message

Message	Stand for	Note
• • • • •		detect weight
SEŁUP	SETUP	User Setup Menu
P8F 33	BATtery	battery life percentage
End	END	save and exit
oFF	OFF	power off
ouEr	OVERload	overloading
Err	ERRor	invalid operation
RCC	ACCumulate	accumulate weight
dEL	DELete	delete last weight
[Lr	CLeaR	delete all weight

7. Operations

Power On/Off

- Long press to power-on scale. Scale perform initialization and power-on test, shows, shows twice, then capacity shows, battery life percentage hat 99 shows, weight detection shows and then auto zero.
- For information about Auto-Zero, refer to Scale Configuration in Technical Manual.
- Long press or to power-off scale. Battery life percentage hat 99 shows, off message of 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

- \square Long press \square , or press \square , to zero. \square shows.
- (i) If load is in motion, or tared, or out of Manual-Zero Range, shows.
- For information about Manual-Zero Range, refer to Scale Configuration in Technical Manual.

Tare In/Out

- In gross mode, press $\stackrel{\text{lare}}{\triangleright}$, or press $\stackrel{\text{lare}}{\triangleright}$, to tare in. $\stackrel{\text{T}}{\triangleright}$ shows.
- (i) If load is in motion, or negative, or out of Tare Range, shows.
- Tare will reduce the apparent overload range of scale. For

V	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 $\begin{tabular}{ l l l l l l l l l l l l l l l l l l l$
	Lock/Unlock
√	Press to lock screen. H shows. Press to unlock screen. H disappears.
	Accumulate
V	Press to accumulate current weight. shows, indicating weight is accumulated. Scale uses
	displayed weight, so gross or net weight is added into the same accumulator.
①	
	View
	Press $\stackrel{\bigcirc}{\mathbb{P}}$ to enter View mode.
	Display flashes accumulated weight.
√	Press to view high 5-digit or low 5-digit. Press to exit View mode.
	View Average Weight
V	Press first and then press to enter View Average Weight mode.
	Display flashes the average weight of all accumulated weights. Press ot to exit View Average Weight mode.
	Delete Last Weight

	Press to delete last accumulated weight. ### shows, indicating last accumulated weight is deleted. Delete function only deletes the last weight.
①	If last accumulated weight has been deleted, Err shows.
	Clear All Weight
$\overline{\mathbf{A}}$	Press first and then press to clear all accumulated weight.
	shows, indicating all weight is cleared.
	Unit Switch
	Press , to switch unit in between kg, lb, and User Unit. When unit is kg, \$\frac{1}{2} \shows. When unit is lb, \$\frac{1}{2} \shows.\$ When unit is User unit, \$\frac{1}{2} \hbar \shows.
	For more information about User Unit, refer to Scale Configuration in Technical Manual.
	O
8.	User Setup
8. ☑	_
	User Setup Press ☐ to enter User Setup menu.
	User Setup Press first and then press to enter User Setup menu. Stell shows. Auto-Off Timing Press to enter Auto-Off Timing. off shows. Press or or o, to change timing value.
	User Setup Press first and then press to enter User Setup menu. SELUP shows. Auto-Off Timing Press to enter Auto-Off Timing.
	User Setup Press first and then press to enter User Setup menu. SELUP shows. Auto-Off Timing Press to enter Auto-Off Timing. off shows. Press or or o, to change timing value. Auto-Off Timing can be set to: (disabled), (5min), (final)
	Press first and then press to enter User Setup menu. SELUP shows. Auto-Off Timing Press to enter Auto-Off Timing. off shows. Press first and then press to enter User Setup menu. Auto-Off Timing off shows. Press first and then press to enter User Setup menu. (Idea of the content of the conten
	Press first and then press to enter User Setup menu. SELUP shows. Auto-Off Timing Press to enter Auto-Off Timing. off shows. Press or or to change timing value. Auto-Off Timing can be set to: (disabled), (5 (5min), (10min), (15min), (30min), (60min). It is disabled by default.

is stable. Any key pressing or motion in load restarts countdown timer.

Backlight Brightness
Press to enter Backlight Brightness. br shows. Press or or press , to change brightness
value. Backlight Brightness can be set to: off (disabled), (dim), (normal), (bright).
Dim backlight brightness saves battery power dramatically.
Idle Mode Timing
Press to enter Idle Mode Timing. I dl shows. Press from , or press or or , to change timing value Idle Mode Timing can be set to: (disabled), (5sec), (10sec), (15sec), (30sec), (60sec). It is 30sec by default.
To maximize battery life, scale automatically enters Idle Mode, when there's 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 to exit User Setup.

9. Battery Maintenance

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

- **(i)** This scale is powered by a 3 AA 1.5V batteries.
- (i) Battery house can be opened by screwing off 2 screws.
- (i) Depending on backlight brightness and idle mode setting,

- normally, battery works over 65 hours.
- (i) In order to conserve battery life, enable Auto-Off and Idle Mode, dim backlight brightness.
- (i) To obtain maximum service life, battery should be stored between -20°C (-4°F) and +50°C (122°F). Stored batteries should be recharged every three months.
- (i) When 3 batteries voltage is lower than 3.2V, scale will auto power-off itself. Please replace the dead batteries with new ones.

10. Troubleshooting

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

Symptom	Possible Cause	Suggested Solution
	discharged / defective battery	check battery and replace
not power-on after (b) is	defective On/Off key	press harder and keep pressing for 2s
pressed	defective power cable	open front panel, check power cable
	defective mainboard	contact representative
backlight flashes	discharged battery	replace battery
no action taken	scale is disturbed	re-plug power cable
after key pressed	defective key	contact representative
	load in motion	keep load stable
. 1 1.	weak Anti-Motion	change Anti-Motion level
weight reading not stable	damped loadcell or mainboard	dry loadcell or mainboard
	defective mainboard	contact representative
weight reading	discharged battery	replace battery
not zero when no	loadcell stressed too	hang scale in storage

load	long		
	loadcell drifts	contact representative	
	scale not zeroed before	Manual Zero scale before	
	applying load	loading	
large error in	wrong unit	switch to correct unit	
weight reading	require calibration	calibrate scale	
	defective loadcell or	contact representative	
	mainboard	contact representative	