

# CRANE SCALE

## USER GUIDE



MODEL:OCS-S1

CE

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Version: V1.0A-1

Please read this manual carefully before using.

# 1. Safety Guide

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

## 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

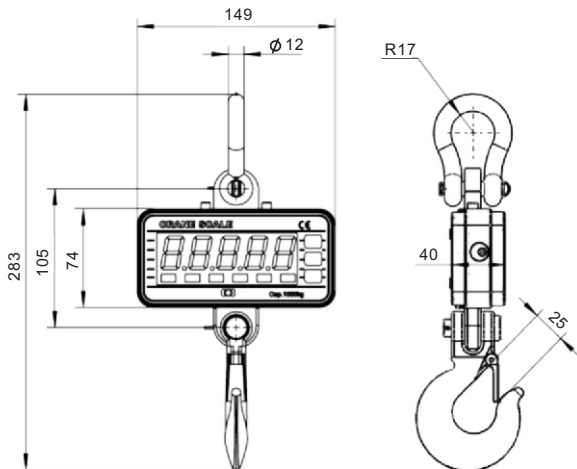
|             |                                            |
|-------------|--------------------------------------------|
| Accuracy    | Chinese GB/T 11883-2002 CIII eqv. OIML R76 |
| Tare Range  | 100% F.S.                                  |
| Auto Zero   | ± 20% F.S.                                 |
| 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. Capacity

| Model     | Max. Cap. | Min. Cap. | Res.   | Division |
|-----------|-----------|-----------|--------|----------|
| OCS-01-S1 | 100kg     | 1kg       | 0.05kg | 2,000    |
| OCS-02-S1 | 200kg     | 2kg       | 0.1kg  | 2,000    |
| OCS-03-S1 | 300kg     | 2kg       | 0.1kg  | 3,000    |
| OCS-05-S1 | 500kg     | 4kg       | 0.2kg  | 2,500    |
| OCS-1-S1  | 1,000kg   | 10kg      | 0.5kg  | 2,000    |

## 5. Dimension & Weight



## 6. Display & Keys

### Scale Keys

| Key                                                                                 | Name   | Function                                                                                |
|-------------------------------------------------------------------------------------|--------|-----------------------------------------------------------------------------------------|
|  | On/Off | Short pressing: Cancel & return to weighing mode<br>Long pressing: Power-on / Power-off |
|  | Tare   | Short pressing: Tare in/out; Increase digit<br>Long pressing: Zero; Move digit          |

|                                                                                   |      |                                                                                                         |
|-----------------------------------------------------------------------------------|------|---------------------------------------------------------------------------------------------------------|
|  | Hold | Short pressing: Lock/unlock; Confirm & next<br>Long pressing: Unit Switch; Input / cancel decimal point |
|-----------------------------------------------------------------------------------|------|---------------------------------------------------------------------------------------------------------|

## Remote Keys

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

## Indicators

| LED         | Name   | Note                       |
|-------------|--------|----------------------------|
| <b>STB.</b> | Stable | lit when weight is stable  |
| <b>ZERO</b> | Zero   | lit when weight is at zero |
| <b>TARE</b> | Tared  | lit when scale is tared    |

|             |      |                          |
|-------------|------|--------------------------|
| <b>HOLD</b> | Hold | lit when scale is locked |
| <b>lb</b>   | lb   | lit when unit is lb      |
| <b>kg</b>   | kg   | lit when unit is kg      |

## Message

| Message | Stand for  | Note                    |
|---------|------------|-------------------------|
| -----   |            | detect weight           |
| SETUP   | 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. Operations

### Power On/Off

- ☒ Long press  to power-on scale. Scale perform initialization and power-on test, **888888** 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  or  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 , or press , to zero.  shows.



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

## Tare In/Out



In gross mode, press , or press , to tare in.  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 , or press , to tare out.  disappears.

## Lock/Unlock



Press  or  to lock screen.  shows.



Press  or  again to unlock screen.  disappears.

## Accumulate



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.

## View

- ✓ Press  to enter View mode.
-  Display flashes accumulated weight.
- ✓ Press  or  to view high 5-digit or low 5-digit.
- ✓ Press  or  to exit View mode.

### Delete Last Weight

- ✓ Press  to delete last accumulated weight.
  -  **DEL** shows, indicating last accumulated weight is deleted.
- Delete function only deletes the last weight.

### Clear All Weight

- ✓ Press  first and then press  to clear all accumulated weight.
-  **CLR** shows, indicating all weight is cleared.

### Unit Switch

- ✓ Long press  or press , 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. User Setup

- ✓ Press  first and then press  or  to enter User Setup menu. **SETUP** shows.

### Auto-Off Timing

- ✓ Press  or  to enter Auto-Off Timing. **off--** shows.
- ✓ Press  or press  or , 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 scale's battery life against people's carelessness not to power off scale when it's not working.

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

## Display Brightness

✓ Press  or  to enter Display Brightness. **br** - shows.

✓ Press  or press  or  , 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  or  to enter Idle Mode Timing. **IDL--** shows.

✓ Press  or press  or  , 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 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  or  to exit User Setup.

## 9. 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. 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  is pressed | discharged / defective battery | check battery and replace             |
|                                                                                                                 | defective On/Off key           | press harder and keep pressing for 2s |
|                                                                                                                 | defective power cable          | open front panel, check power cable   |
|                                                                                                                 | defective mainboard            | contact representative                |
| display flashes                                                                                                 | discharged battery             | replace battery                       |
| no action taken after key pressed                                                                               | scale is disturbed             | re-plug power cable                   |
|                                                                                                                 | defective key                  | contact representative                |
| weight reading not stable                                                                                       | load in motion                 | keep load stable                      |
|                                                                                                                 | weak Anti-Motion               | change Anti-Motion level              |
|                                                                                                                 | damped loadcell or mainboard   | dry loadcell or mainboard             |

|                                            |                                          |                                     |
|--------------------------------------------|------------------------------------------|-------------------------------------|
|                                            | defective mainboard                      | contact representative              |
| weight reading<br>not zero when no<br>load | discharged battery                       | replace battery                     |
|                                            | loadcell stressed too<br>long            | hang scale in storage               |
|                                            | loadcell drifts                          | contact representative              |
| large error in<br>weight reading           | scale not zeroed before<br>applying load | Manual Zero scale before<br>loading |
|                                            | wrong unit                               | switch to correct unit              |
|                                            | require calibration                      | calibrate scale                     |
|                                            | defective loadcell or<br>mainboard       | contact representative              |