# Crane Scale
# User Manual

Model:OCS-SF

BBG
Soluciones de pesaje y equipos para alimentos

Manual usuario BBG ref SF

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## SAFE OPERATION GUIDE:

1. The capacity of crane scale have been showed on the overlay, Don't make lifts beyond rated capacity of the crane scale.

2. Operators should not maneuver a loaded crane scale over personnel.

3. The scale must be routinely checked for operation. Don't operate if hook, shackle, sling, cable, etc show any sign of defects or excessive wear.

4. If the scale is not going to be used for long time, recharging the battery every three months to preserve the life-span of the battery and recharge it before operation.

5. The battery charger is included in the scale package. Please use this charger, It's normal that the charger will become warm when the battery is charging.

6. Please note when the digits flash on the display, it means that the battery needs to be recharged.

7. Check hook, shackle, safety pins, and latches periodically. Contact your dealer for parts replacement in case defect, deform or wearing is found.

8. Always lift loads vertically.



## CHAPTER 1 FEATURES AND SPECIFICATION

### 1. Features

- **Rotating hook:** 360° safe rotated hook, convenient to use
- **Multi-weighing units**:
  Kg, lb, N are selectable, generally kg are default unit.
- **Multi-function operation:**
  Tare, Zero, Auto zero tracking, Total, Hold, Overload warning and record, Calibration through remote controller, etc functions.
- **User-friendly design:**
  Die casting plastic housing for maximum protection; Large red 5 digit LED display (digit height 20mm); Gravity compensation; Safety factor up to 4 times capacity; Battery Operated with low battery indication; Automatic turn off, power-saving function.

### 2. Main technical data

| | |
|---|---|
| Standard | According to OIML class III |
| Display | 20mm (0.8") 5digits LCD/LED |
| Zero Range | 4% F.S. |
| Tare Range | 100% F.S. |
| Stable Time | ≤10 seconds |
| Overload Indication | 100% F.S. + 9e |
| Max. Safety Load | 125% F.S. |
| Ultimate Load | 400% F.S. |
| Battery Life | ≥70 hours |
| Battery Type | Fully sealed Lead-Acid battery, 4V/2Ah<br>Or AA size battery, 1.5V x 3, user selectable |
| Adapter | DC6V/500mA Lead-Acid adapter |
| Nominal operating Temp. | - 10℃ ~ + 40℃ |
| Operating Humidity | ≤85% RH under 20℃ |
| Remote Controller Distance | Min. 15m |
| Battery of Remote Controller | AAA Size battery, 1.5V x 2 |



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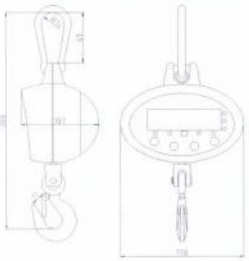
## 3. Dimension and specification



**Dimensions and Specifications:**

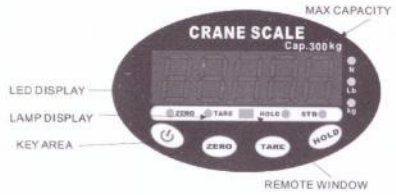
| MODEL | Cap.(kg) | Resolution(kg) | N.W(kg) | G.W.(kg) |
|---|---|---|---|---|
| OCS-SF-003 | 30 | 0.01 | 0.95 | 1.2 |
| OCS-SF-005 | 50 | 0.02 | 0.95 | 1.2 |
| OCS-SF-01 | 100 | 0.05 | 0.95 | 1.2 |
| OCS-SF-015 | 150 | 0.05 | 0.95 | 1.2 |
| OCS-SF-02 | 200 | 0.1 | 0.95 | 1.2 |
| OCS-SF-03 | 300 | 0.1 | 0.95 | 1.2 |

## 4. Power supply

Battery: 4V/2Ah fully sealed Lead-Acid battery or 3pcs 1.5V AA size Batteries
Adapter: 6V/500mA special Lead-Acid adapter
Current: the crane scale average current is about DC 20mA±10%, if battery charged, it can be used for about 70hours.Low battery warning: When the digits flash, it means the battery needs to be recharged. The scale will power off automatically after 1 to 2 hours operation if the battery is not charged. Please recharge the battery before operating the scale again.
Charging method: Turn off the crane scale, use adapter in the carton, the lamp on the adapter will become green when charging, and it will become red when the charging finish.
Generally, charging time should not less than 8hours, the crane scale have charging protection, long time charging can't damage the battery.



## CHAPTER 2 DISPLAY




**1. LED DISPLAY**
20mm (0.8") 5digits LED/LCD

**2. INDICATOR LAMP**
a. **ZERO:** ZERO indicator
b. **TARE:** TARE indicator
c. **HOLD:** HOLD indicator
d. **STB:** STABLE indicator
e. **lb :** lb unit indicator
f. **kg :** kg unit indicator
g. **N :** Newton unit indicator

**3. KEY**
a. ⏻: ON/OFF
1. Press ⏻ three seconds, the crane scale turn on.
2. When turn on, Press ⏻ three seconds, the crane scale turn off.

b. (ZERO): ZERO
When crane scale switch on with no load on the hook, but there are small digits on screen, press this key to obtain zero reading. The "ZERO" indicator switches on.

c. (TARE): TARE
1. Hang sling or container on the hook, when the weight reading stable, press this key, the digits display "0", and "TARE" indicator switch on.
2. Put the goods into container, the scale will display goods net weight.
3. If move goods and container, the scale will display minus value of tare weight.

d.: (HOLD): HOLD
1. When weight is changing, press this key will hold the reading, and "HOLD" indicator switch on.
2. Press this key again, reading will resume changing, and "HOLD" indicator switch off.



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## 4. REMOTE CONTROLLER

Press any key on the remote controller, the indicator on the controller will flash.

Key function:

1. 【ZERO】
   a. In weighing status, when crane scale switch on with no load on the hook, but there are small digits on screen, press this key to obtain zero reading.
   b. In parameter setting and calibration process, it used for set value up
2. 【TARE】
   a. In weighing status, the function is equal to TARE on front panel
   b. In parameter setting and calibration process, it used for move digit (the digit choose flash)
3. 【SHIFT】
   a. In weighing situation, used for function shift, or used with other key to more function.
   b. In parameter setting and calibration process, it used for confirm setting.
4. 【CLEAR】
   a. In weighing status, it used to clear accumulation.
   b. In parameter setting and calibration process, it used for set value down.
5. 【ACCU】
   It used for accumulation function, details see Chapter3-5.
6. 【F1】
   Function Key, used with 【F2】 together, Press 【F1】 solely, it will regulate brightness of LED.
7. 【F2】
   Function Key, used with 【F1】 together.
8. 【HOLD】
   It used for hold function, details see Chapter3-4.
9. 【PEAK】
   It used for hold function, details see Chapter3-5.
10. 【OFF】
    Turn off the crane scale



# CHAPTER 3 OPERATION GUIDE

**【 】express key on remote controller.**

### 1 TURN ON/OFF

◆TURN ON

Press ⏻ one seconds, the screen display as follows:

| OPERATION | DISPLAY | ILLUSTRATION |
|---|---|---|
| Press ⏻ | 〖88888〗 | Display two times |
| | 〖u=1.05〗 | Display two times, ERT is Everight abbreviation |
| | 〖XXXXX〗 | Display capacity |
| | 〖U4.XX〗 | Display current battery voltage |
| | 〖----- 〗 | Waiting stable |
| | 〖 0.00〗 | "STB" light on, you can operate now |

◆TURN OFF

| | |
|---|---|
| 1 | Press ⏻ one seconds. |
| 2 | Press 【OFF】 three seconds. |
| 3 | Choose turn off method when parameter setting, the scale will display 〖 -〗after no operation at 15minutes to save power, and it will turn off automatically after 60minutes. |

### 2 ZERO

| OPERATION | DISPLAY | |
|---|---|---|
| Press【ZERO】 | 〖 0〗 | When scale turn on, generally scale displays 〖 0〗,if display small digits when no load, press this key. |

### 3 TARE

◆TARE DIRECTLY

| | OPERATION | DISPLAY | |
|---|---|---|---|
| 1 | Press (TARE) | 〖 0〗 | After turn on, hanging tare weight such as sling, cable at first, press this key, "TARE" light on, then the scale will display net weight of the goods. |
| 2 | Press【TARE】 | 〖 0〗 | |

### 4 HOLD

| OPERATION | ILLUSTRATION |
|---|---|
| Press【HOLD】 | Hold the weight reading no matter load change |
| Press【HOLD】again | Return to normal weighing status |

### 5 PEAK

| OPERATION | ILLUSTRATION |
|---|---|
| Press【PEAK】 | Before weighing, press this key, the HOLD lamp will flash and the scale will get the peak value of the load. |
| Press【PEAK】again | The HOLD lamp will not flash again and the scale return to normal weighing status |



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### 6 ACCUMULATION

| OPERATION | DISPLAY | ILLUSTRATION |
|---|---|---|
| Press【ACCU】 | 〖No***〗 | Current accumulation time |
| | 〖H****〗 | Front four digits of total value |
| | 〖L****〗 | Rear four digits of total value |

After display above contents two times, the scale will return automatically, you also can press【SHIFT】to return.

### 7 ACCUMULATION SEARCH

| OPERATION | DISPLAY | ILLUSTRATION |
|---|---|---|
| 【SHIFT】【ACCU】 | 〖No.***〗 | Current accumulation time |
| | 〖*****〗 | Current weight reading |
| | 〖H****〗 | Front four digits of total value |
| | 〖L****〗 | Rear four digits of total value |
| 【SHIFT】 | 〖*****〗 | Return |

Press【TARE】and【ZERO】can check different times weight and accumulation.

### 8 ACCUMULATION CLEAR

| OPERATION | DISPLAY | ILLUSTRATION |
|---|---|---|
| 【CLEAR】 | 〖 CLr 〗 | Ask if you want to clear or not |
| 【CLEAR】 | 〖noCLr〗 | Cancel clear |
| 【SHIFT】 | 〖8.8.8.8.8.〗 | Confirm clear |

### 9 BATTERY VOLTAGE

| OPERATION | DISPLAY | ILLUSTRATION |
|---|---|---|
| 【SHIFT】【F1】 | 〖U 4.**〗 | Display current battery voltage |
| 【SHIFT】 | | Return |

The voltage should be between 3.8 and 4.6, if below than 3.8, the digits flash, you need to recharge immediately.

### 10 BRIGHTNESS

| OPERATION | ILLUSTRATION |
|---|---|
| 【F1】 | 1~8 total 8 options, from darkness to brightness(Default is 5) |

### 11 ZERO POINT

| OPERATION | ILLUSTRATION |
|---|---|
| 【SHIFT】【ZERO】 | Display current zero point |

### 12 UNIT

| OPERATION | ILLUSTRATION |
|---|---|
| 【SHIFT】【HOLD】 | Unit switch, Un=0: kg, "kg" light on, Un=1: lb, "lb" light on. Un=2: Newton, "N" light on. |



## CHAPTER 4 DISPLAY ILLUSTRATION

| DISPLAY | ILLUSTRATION | REMARK |
|---|---|---|
| 〖CALSP〗 | Enter zero point calibration | |
| 〖SCALE〗 | Enter calibration | |
| 〖SEtUP〗 | Enter parameter setting | |
| 〖UAdJ 〗 | Enter voltage calibration | |
| 〖LoAd1〗 | First calibration point | LoAd1<LoAd2<LoAd3 |
| 〖LoAd2〗 | Second calibration point | |
| 〖LoAd3〗 | Third calibration point | |
| 〖_____〗 | Exceed high limit | Tare weight can't exceed full capacity |
| 〖_____〗 | Exceed low limit | Tare weight can't be negative |
| 〖-----〗 | Waiting | |
| 〖Err10〗 | Weight less than Min. Capacity | Can't accumulate the value |
| 〖Err11〗 | Accumulated times overflow | Can't accumulate after 30times |
| 〖Err12〗 | Accumulated weight overflow | Can't accumulate after 99999 |
| 〖Err13〗 | Error in repeat accumulation | Can't accumulate one weight repeatedly |
| 〖no***〗 | Current accumulation times | |
| 〖H****〗 | Front four digit of accumulated weight | Total weight=front four digit + rare four digit |
| 〖L****〗 | Rare four digit of accumulated weight | Total weight=front four digit + rare four digit |
| 〖 CLr 〗 | Ask if you really want to delete accumulated weight | In case error deletion |
| 〖noCLr〗 | Give up deletion | |
| 〖88888〗 | Confirm deletion | |
| 〖SHIFt〗 | Switch | |
| 〖 ____ 〗 | Input value is too large | When you input tare or weight value |
| 〖 ____ 〗 | Input value is too small | When you input tare or weight value |
| 〖noACC〗 | No any accumulated content | when you check accumulation |
| 〖-oL-〗 | Overload warning | Tare + Net weight exceed full capacity + 9e |
| 〖-Lb-〗 | Low battery warning | Turn off automatically one minute later |
| 〖U*.**〗 | The voltage of current battery | |
| 〖 End 〗 | End | when parameter setting or calibration ready |
| 〖 OFF 〗 | Turn off | |
| 〖Unstb〗 | Input value before STB light on | |



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## CHAPTER 5 TROUBLESHOOTING GUIDE

| PROBLEM | POSSIBLE CAUSE | SOUTION |
|---|---|---|
| No display when put on | Discharged battery | Recharge |
| | Defective battery | Replace |
| | Defective button | Requires authorized service |
| | Power button not properly depressed | Press ON/OFF in three seconds |
| Digits flash | Low battery | Recharge the battery |
| Recharge indicator light can't turn on | Battery charger damaged | Check the battery charger |
| | The Battery charger is not plugged properly | Insert plug again |
| Display doesn't respond to weight changes | Faulty load cell or PCB | Requires authorized service |
| | Load cell cable damaged | Check and replace load cell |
| | Out of calibration | Check calibration |
| Display experiences excessive Zero drift between weighment | Scale electronics do not stabilize after turning on | After turning on, heating 3-5 minutes. |
| | Put the scale on ground for too long time | Scale should be hung |
| Displayed weight shows large error | Scale not Zeroed before applying weight | Depress ZERO before applying weight |
| | Requires recalibration | See calibration |
| | Kg/lb wrong selection | See operation |
| Battery can't recharge | Battery damaged | Replace battery |
| | Outlet damaged | Replace the outlet |
| Remote distance shortened | Receiver window is dirty | Check and clean |
| | Remote Control's battery is low | Replace Remote Control's battery. |

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