
DIGITAL CRANE SCALE

USER MANUAL



MODEL: OCS-S9

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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

◆ **Blue-tooth wireless communication and display**

Many functions on Mobile(android system). Such as tare, zero, peak, accumulation. Two display, one display on Mobile, one display on crane scale,

◆ **Two set point**

Two user programmable Set-Point can be used for safety and warning applications or for limit weighing.

◆ **User-friendly design:**

Cast aluminium scale housing for maximum protection; Large red 5 digit LED display (digit height 30mm); Gravity compensation; Safety factor up to 4 times capacity; Battery Operated with low battery indication; Automatic turn off , power-saving function.

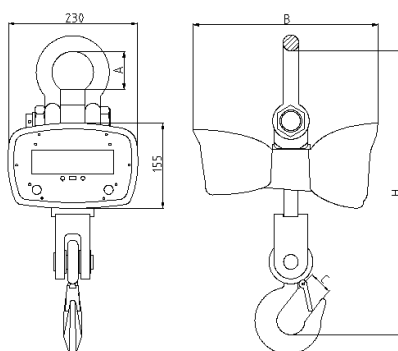
2. Main technical data

Accuracy Standard	According to OIML class III
Scale/Indicator Display	30mm (1.2") 5digits LED/25mm(1") 5digits LCD
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.
Scale/indicator Battery Life	≥70 hours
Scale Battery Type	Fully sealed Lead-Acid battery, 6V/7Ah
Scale Adapter	DC9V/1000mA
Nominal operating Temp.	- 10°C ~ + 40°C
Operating Humidity	≤85% RH under 20°C
Wireless Distance	50M without obstacle

3. Specification

MODEL	Max. capacity (kg)	Min. weigh (kg)	Division (kg)	Total display counts (n)
OCS-SB-1	1000	10	0.5	2000
OCS-SB-2	2000	20	1	2000
OCS-SB-3	3000	20	1	3000
OCS-SB-5	5000	40	2	2500
OCS-SB-10	10000	100	5	2000
OCS-SB-15	15000	100	5	3000
OCS-SB-20	20000	200	10	2000

4. Appearance illustration



MODEL	A(mm)	B(mm)	C(mm)	H(mm)	N.W.
OCS-SB-1	80	340	30	420	12kg
OCS-SB-2	80	340	30	420	12kg
OCS-SB-3	100	340	40	600	14kg
OCS-SB-5	130	360	45	720	23kg
OCS-SB-10	145	360	60	850	43kg
OCS-SB-15	170	360	85	900	60kg
OCS-SB-20	170	360	85	900	65kg

5. Scale power supply

Battery: 6V/7Ah fully sealed Lead-Acid battery

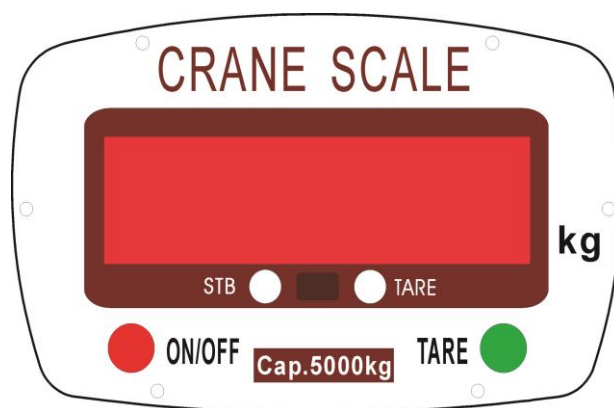
Adapter: 9VDC/1000mA adapter

Current: the crane scale average current is about DC 100mA±10%, if battery charged, it can be used for about 50hours. 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 charge lamp on the back cover will become orange when charging, and it will become green 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 SCALE & MOBILE DISPLAY



1. SCALE DISPLAY

1. LED DISPLAY

30mm (1.2") 5digits LED/LCD

2. INDICATOR LAMP

- a. **TARE:** TARE indicator
- b. **STB:** STABLE indicator

3. KEY

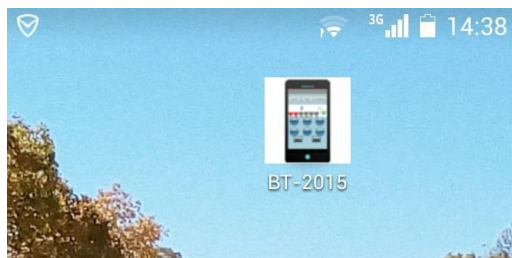
- a. ON/OFF
 - 1. Press ON/OFF three seconds, the crane scale turn on.
 - 2. When turn on, Press ON/OFF three seconds, the crane scale turn off.
- b. TARE
 - 1. Hang sling or container on the hook, when the weight reading stable, press this key, the digits display "0", and "TARE" indicator switch on.
 - 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.

2. Mobile display

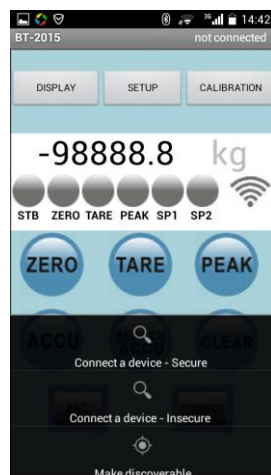
1. Install APP software to mobile

This is android system! Android 2.0

1. Download the APK software(Everight-1-2P) to mobilephone
2. Running the software
3. Search and press button “BT-2015”

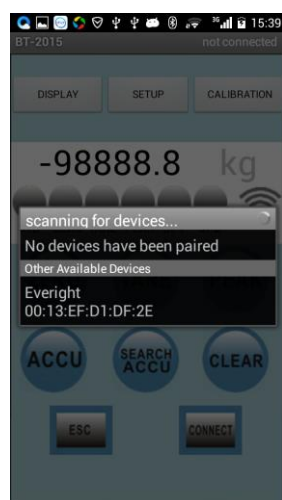


The mobilephone will display as follows:



2. Connect Mobilephone with scale through bluetooth

Press CONNECT button, choose Connect a device-Secure. The mobilephone display



First time there are no paired devices inside, press “Scan for device” to search paired device. After the paired device display, press it.

It will request you input device pin, input pin: 6666, then press Enter, the mobilephone will display



Of course, you must turn on scale at first.

From the right corner, you will see connected: Everight , now the screen display same content with the scale.

CHAPTER 3 OPERATION GUIDE

Note: () means the key on the mobile phone

【 】 means the key on the remote control

〔 〕 means the display content

1 TURN ON/OFF

◆ Turn on scale

OPERATION	DISPLAY	ILLUSTRATION
Press ON/OFF on the scale	〔 88888 〕	Display two times
	〔 Ert 〕	Display two times, ERT is abbreviation of Everight
	〔 u 2.11 〕	Display current software version 2.11
	〔 XXXXX 〕	Display capacity
	〔 U 6.XX 〕	Display current scale battery voltage
	〔 ——— 〕	Waiting stable
	〔 0 〕	“STB” light on, you can operate now

◆ Turn off scale

1	Press ON/OFF on the scale 3 seconds.
2	Press 【 OFF 】 Key on remote control

2 ZERO

OPERATION	DISPLAY	When scale turn on, generally scale displays 〔 0 〕 ,if display small digits when no load, press this key.
Press (ZERO)	〔 0 〕	
Press 【 ZERO 】	〔 0 〕	

3 TARE

◆ TARE DIRECTLY

	OPERATION	DISPLAY	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.
1	Press (TARE)	⎓ 0 ⎓	
2	Press TARE on the scale	⎓ 0 ⎓	
3	Press 【TARE】	⎓ 0 ⎓	

4 PEAK

OPERATION	ILLUSTRATION
Press (PEAK)	Hold the maximum weight reading when load change
Press (PEAK) again	Return to normal weighing status

5 HOLD

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

6 ACCUMULATION

OPERATION	DISPLAY	ILLUSTRATION
Press 【ACCU】	⎓ No*** ⎓	Current accumulation time
or (ACCU)	⎓ 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
Press 【 SHIFT 】	⎓ No.*** ⎓	Current accumulation time
【 ACCU 】 or (search ACCU)	⎓ ***** ⎓	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】 or (CLEAR)	⎓ CLr ⎓	Ask if you want to clear or not
【CLEAR】 or (CLEAR)	⎓ noCLr ⎓	Cancel clear
【SHIFT】	⎓ 8.8.8.8. ⎓	Confirm clear

9 BATTERY VOLTAGE

OPERATION	DISPLAY	ILLUSTRATION
【SHIFT】【F1】	U 6.**	Display current battery voltage
【SHIFT】		Return

The voltage should be between 5.8 and 6.9, if below than 5.8, the digits flash, you need to recharge immediately.

10 SET POINT

There are two user programmable Set-Point can be used for safety and warning applications or for limit weighing.

— 1 LO SP1 1 HI 2 LO SP2 2 HI

OPERATION	DISPLAY	ILLUSTRATION
Press 【F1】 and 【F2】 at same time 3seconds	P0000	Second digit flash, use function key to move digit, set value.
Press【TARE】【ZERO】【CLEAR】	P8888	Input 8888, 8888 is parameter setting password
Press 【SHIFT】	SETUP	Confirm, enter parameter setting program
Press 【TARE】	SP1	Press 【TARE】 until it display SP1, Set point 1
Press 【TARE】	1 OFF	New dynamometer, it display 1 OFF, if parameter set, it display set value.
Press 【ZERO】 to choose	1 HI or 1 LO	There are 3 choice, 1 OFF means you don't set point, 1 HI means the indicator will alarm when load exceed the value you set, 1 LO means the indicator will alarm when load smaller than the value
Press 【TARE】 to confirm	02000	New dynamometer it display 02000, if parameter set, the screen display set value.
Press 【 ZERO 】 and 【ACCU】 to change value	01000	Set "1 HI" or "1 LO" Value. e.g. 1000kg
Press 【TARE】	SP2	Set point 2
Press 【TARE】	2 OFF	New dynamometer, it display 2 OFF, if parameter set, it display set value.
Press 【ZERO】 to choose	2 HI or 2 LO	There are 3 choice, 2 OFF means you don't set point, 2 HI means the indicator will alarm when load exceed the value you set, 2 LO means the indicator will alarm when load smaller than the value
Press 【TARE】	01200	New dynamometer it display 01200, if parameter set, the screen display set value.
Press 【 ZERO 】 and 【ACCU】 to change value	03000	Set "2 LO" or "2 HI" Value. e.g. 3000kg

If you needn't to set point, you only need to press 【TARE】 until it display next function g

CHAPTER 4 PARAMETER SETTING & CALIBRATION

You need to use remote controller to operate parameter setting and calibration

Key function:

KEY	FUNCTION
【TARE】	Move digit(the digit choose flash)
【ZERO】	Set value up
【CLEAR】	Set value down
【SHIFT】	Confirm, exit

1. PARAMETER SETTING

OPERATION	DISPLAY	ILLUSTRATION
Press ON/OFF 3seconds	〔 0 〕	Turn on crane scale
Press 【F1】 and 【F2】 at same time 3seconds	〔 P000 〕	Second digit flash, use function key to move digit, set value.
Press 【TARE】 【ZERO】 【CLEAR】	〔 P8088 〕	Input 8088, 8088 is parameter setting password
Press 【SHIFT】	〔 SETUP 〕	Confirm, enter parameter setting program
Press 【TARE】	〔 FS=06 〕	New scale, the screen display FS=06, if scale calibrated, the screen display capacity.
Press【ZERO】or【CLEAR】 to choose	〔 FS=05 〕	Choose capacity , the screen display 02/03/05/06/10/15/20/30/50/60/75 circularly , take cap:5000kg as example, choose FS=05
Press 【TARE】 confirm	〔 Id=05 〕	New scale, the screen display Id=05, if scale calibrated , the screen display calibrated division.
Press【ZERO】or【CLEAR】 to choose	〔 Id=02 〕	Choose division , the screen display 01/02/05/10/20 circularly. 5000kg scale division is 2kg, so choose Id=02
	〔 Pt=0 〕	New scale, the screen display Pt=0, if scale calibrated , the screen display calibrated decimal position
Press【ZERO】or【CLEAR】 to choose	〔 Pt=0 〕	Choose decimal position, the screen display 0/1/2/3 circularly, 0=xxxxx, 1=xxxx.x, 2=xxx.xx, 3=xx.xxx, Cap.5000kg scale choose Pt=0
Press 【TARE】 confirm	〔 Ab=24 〕	Display zero range , A: zero range by hand; B: zero range automatically, 0~5 total 6 options: 0=0%F.S; 1=2%F.S; 2=4%F.S; 3=10%F.S; 4=20%F.S; 5=50%F.S, Generally, Don't change this parameter.
Press 【TARE】 confirm	〔 Cd=11 〕	New scale, the screen display Cd=11,if scale calibrated, the screen display calibrated value.

Press【ZERO】or【CLEAR】 to choose	〔Cd=11〕	C: zero-tracking range, 0~5 total 6 options; 0=0d; 1=0.5d; 2=1d; 3=1.5d; 4=2d; 5=2.5d d: display speed, 0~2 total 3 options; 0=slow; 1=average; 2=fast; before calibration, set Cd=00,after calibration, set Cd=11 again, generally choose Cd==11 when ex-stock..
Press 【TARE】 confirm	〔LL=2〕	New scale, the screen display LL=2,if scale calibrated, the screen display calibrated value.
Press【ZERO】or【CLEAR】 to choose	〔LL=1〕	LL: filter parameter, 0~5 total 6 options, from smallest to biggest, before calibration, set LL=0,after calibration, set LL=1 again, generally choose LL=1 when ex-stock..
Press 【TARE】 confirm	〔Un=0〕	New scale, the screen display Un=0, if scale calibrated, the screen display calibrated unit.
Press【ZERO】or【CLEAR】 to choose	〔Un=0〕	Choose unit, Un=0: kg, Un=1: lb, Un=2: other unit. Generally, choose Un=0 when ex-stock.
Press 【TARE】 confirm	〔OFF 1〕	New scale, the screen display OFF 1,if scale calibrated, the screen display calibrated value.
Press【ZERO】or【CLEAR】 to choose	〔OFF 2〕	Choose turn off method, 0~2 total 3 options; 0: turn off by hand; 1: if no operation, the screen display 〔 - 〕 after 15minutes to save power;2: if no operation, the screen display 〔 - 〕 after 15minutes, and turn off automatically after 60minutes. Generally, choose OFF=2 when ex-stock.
Press 【TARE】 confirm	〔g 〕	Acceleration of gravity
Press 【TARE】 ,Press 【ZERO】 and 【CLEAR】 to change value	〔9.7930〕	New crane scale , it display 9.7930, it our company local g, if scale calibrated, it display calibrated value. user can change it according to local area g value, the value range is 9.783-9.832,
Press 【SHIFT】	〔 End 〕	Confirm above parameter setting , Exit parameter setting program.

1. If you find mis-operation before end, Press 【TARE】 , the screen will display parameter circularly, correct error, and if you find mis-operation after parameter setting program finished, you have to enter parameter setting program again to correct.

2. The capacity you choose relate to division, decimal position, below is detail list:

CAPACITY/DIVISION	FS (CAP)	Id (DIVISION)	Pt (DECIMAL POSITION)
1000kg/0.5kg	10	05	1
2000kg/1kg	02	01	0
3000kg/1kg	03	01	0
5000kg/2kg	05	02	0
10000kg/5kg	10	05	0
15000kg/5kg	15	05	0
20000kg/10kg	20	10	0

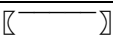
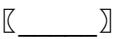
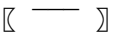
2. calibration

OPERATION	DISPLAY	ILLUSTRATION
	〔 0 〕	Take Cap:5000kg scale as example. Pay attention that the screen display 0 after hanging tare weight, you can hang tare weight at first, then turn on.
Press 【F1】and 【F2】 at same time 3seconds	〔P0000〕	Second digit flash, use function key to move digit, set value.
Press 【 TARE 】 【ZERO】【CLEAR】	〔P1358〕	Input 1358, 1358 is calibration password
Press 【SHIFT】	〔SCALE〕	Confirm, into calibration program
Press 【SHIFT】	〔CALSP〕	Zero point calibration, wait until STB light on
Press 【SHIFT】	〔LoAd1〕	First load calibration
Hanging on first load e.g.1000kg		First load must exceed 20% capacity, Waiting until STB light on.
Press 【SHIFT】	〔05000〕	Display capacity
Press 【 TARE 】 【ZERO】【CLEAR】	〔01000〕	Input 1000, wait until STB light on.
Press 【SHIFT】	〔LoAd2〕	Second load calibration
Hanging on second load e.g.3000kg		Second load must exceed Load 1+20% capacity, Waiting until STB light on.
Press 【SHIFT】	〔02000〕	Mention you Load2 must exceed 2000kg
Press 【 TARE 】 【ZERO】【CLEAR】	〔03000〕	Input actual weight 3000, waiting stable
Press 【SHIFT】	〔LoAd3〕	Third load calibration
Hanging on third load e.g.5000kg		Third load must exceed Load 2+20% capacity, Waiting until STB light on.
Press 【SHIFT】	〔04000〕	Mention you Load3 must exceed 4000kg .
Press 【 TARE 】 【ZERO】【CLEAR】	〔05000〕	Input actual weight 5000kg. wait until STB light on.
Press 【SHIFT】	〔----- 〕	Waiting stable

	【 -oL- 】	
	【 End 】	Calibration end
	【5000.0】	Display calibrated capacity , sometimes it display 4999.5, 5000.5
Press 【TARE】	【05000】	Move decimal position
Put down weight	【 0 】	Check zero point, it display 0, and STB, ZERO light on.

1. First load: LOAD1 must larger than 20% capacity, and $LOAD1 < LOAD2 < LOAD3$, at the same time, between LOAD1 and LOAD2, LOAD2 and LOAD3, the interval must bigger than 20% capacity
2. If LOAD1 is bigger than 80% capacity, such as full capacity, after first load calibration, it will finish automatically, you only need to press 【TARE】 to move decimal position. Generally, we strong recommend you to use this one point calibration program if you have 100% capacity standard weight
3. If you only have 20% standard weight, after first load calibration, when it display 【LoAd2】 , press 【OFF】 2 times, then press 【TARE】 to move decimal position. Calibration finish.

CHAPTER 5 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	

CHAPTER 6 TROUBLESHOOTING GUIDE

PROBLEM	POSSIBLE CAUSE	SOLUTION
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.

