OPX-SS WEIGHING SCALE

USER'S MANUAL

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SUMMARY

The OPX-SS waterproof scale uses a high-precision resistor strain type sensor and the latest carefully designed and manufactured single-chip microcomputer, mainly for the need of waterproof weighing places, such as shops, fish markets, seafood and meat processing establishments.

SAFETY PRECAUTIONS

- To avoid damaging the battery do not keep charger plugged in once battery is fully charged.
- Avoid installing the balance in direct sunlight. This may cause poor performance or malfunctions.
- If the balance will not be used for a long period of time, remove all batteries from the battery compartment to avoid leakage, which may cause damage to the instrument.
- Avoid overloading or dropping material onto the platform as that may damage the balance.
- Place the weight on the center of the pan for accurate weighing.
- Make sure the weight is not over the Max capacity as it could damage the load cell inside.
- Material that has a static electric charge could influence the weighing. Discharge the static electricity of the samples, if possible. Another solution to the problem is to wipe both sides of the pan and the top of the case with an anti-static agent.

PREPARATIONS & SET UP

- Place your balance on a stable and level table. Then level your balance by adjusting the feet to center the bubble in the spirit level.
- Plug into a wall outlet to avoid interference with other wirings.
- Turn on the balance while there is no load on the pan.
- We suggest to warm-up the balance by powering on 15 minutes before use for accurate weighing.
- Calibration may be required before weighing when the balance is initially installed or moved from a location.

SPECIFICATIONS

UNIT\MODEL	OPX-SS-3	OPX-SS-6	OPX-SS-15	OPX-SS-30
Capacity	3 kg (6.6 lb)	6 kg (13 lb)	15 kg (33 lb)	30 kg (66 lb)
Resolution	0.1 g	0.2 g	0.5 g	1 g
Dimensions	9.1" x 11" x 4.5"			
Pan Size	9.1" x 7.5"			
Response	3 seconds			
Display	6 digit, 1" height, LED dual front and back display			
Tare	Up to 3d			
Overload alarm	Auto alarm when load over capacity			
Alarm	Protect automatically when the load is 125% of capacity			
Power	100V - 240V, 50Hz / 60Hz; 3.7V 2200mA/h Rechargeable lithium battery			
Temperature	Storage: ‾10°C - 50°C (14-120°F) Work: 10° - 30°C (50-86°F)			
Weight	7.8 lbs			

KEYBOARD AND CHARACTER PROMPT

1. Keyboard
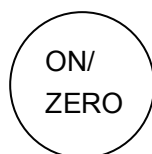
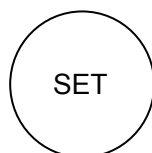(ON/ ZERO)   Turns the scale on or zero the scale.
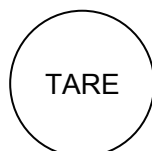
(TARE)   Tare key
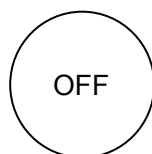
(OFF)   Power off

(SET)   Set/Fig Key. Set parameter and input Fig

2. Character Prompt

dc x.xx: The voltage of battery is x.xx V.
------:   Overload with "ding" sound
-Adc-:   When A/D change overflowing, the display shows it with "ding" sound
bATLo: The voltage is low. Need to be charged.
c _End: Charging completed.
Err-0:   Overload zero of load cell. Please re-adjust or change load cell.

OPERATION INSTRUCTIONS

1. Preparation

Adjust the base foot, watch the level, make the pan in horizontal.

2. Turn on or turn off

2.1 Turn on

Press the [ON/ZERO] key with "ding" sound, it displays version No. and the battery voltage level and 9,8,7···1,0, the "ZERO" lamp lighting. Now the scale is in a working state.

2.2 Turn off

Long- press [OFF] key for 2 seconds.

2.3 Auto-off

After 10 minutes in zeroing, auto-off.

2.4 Low voltage auto-off

When the voltage lower than 5.6V, then power-off.

3. Zero

Used to return the display to zero if a small weight reading is left whilethe scale is empty/unloaded.

4. Weighing

Put weight to pan.

5. Tare

Used to deduct the weight of an item or container. When pressed the symbol will appear and the reading will go to zero. Press again to exit the tare mode and show gross weight.

6. Save power function

Zero after 40 seconds, auto save power, shows " 0 ". Put a weight to start weighing.

7. Battery level

"High" means voltage higher than 6.3V
"Mid" means voltage between 6V and 6.3V,
"Low" means voltage lower than 6V.

8. Charge

Power supplied by a internal rechargeable lead acid battery (6V/4Ah). When it shows "-bAtLo-". Please turn off and charge immediately. The time of full charging is 12 hours.

9. Set parameter

Press [SET/0~9] key 3 seconds to set.
rAngE (Range set)
UnItS (Unit choose)
A-oFF（Auto power off choose）
FILt (Display mode set)
ZEro (Auto zero set)
bUZZEr (Buzzle set)
d (Division choose)
on-rA (Range of power on choose)
d-dP (Single or dual display choose)

9.1 Set of upper and low limit:

9.1.1
When the display shows rAngE, press [TARE] and [SET/0~9] to choose on or oFF, on is start the function，oFF is exit，press [TARE] to confrim.

9.1.2
when selecting on and press the [TARE] , It enters upper and lower weight set. press [SET/0~9] + 1 at a time, when shows the number, press [TARE] ,to into next digit set. If this bit value cannot be set, it indicates that it is beyond the range. Press [TARE] to set the next bit. After setting, it will automatically exit from the lower limit setting state and enter the upper limit setting state. Follow the same step to set the upper limit. Automatically return to the weighing state after setting.

9.1.3
When low limit > high limit, it displays off,then exit.

9.1.4
"m" is the weight
when m≥high limit, "over" lamp is lighting.
When low limit <m<high limit, "accept" lamp is lighting.
When m≤low limit, "under" lamp is lighting.
Caution：When the display is not stabilization, no lamp lights

9.2 Unit Change

9.2.1
When the display shows "units", press [TARE], then press [SET/0~9] to choose, then press [TARE] to confirm and exit. Unit: H9(kg), 9(g), Lb, Lb.oz, pcs(counting).

9.2.2 Counting:

When the display shows "pcs", press [TARE]. The "pcs" lamp lighting.
press [ON/ZERO], it shows count and return to 0. then put the sample
and press [TARE]. Press [SET/0~9] to add 1 and press [TARE] to choose. After
finishing it shows pcs and pcs lamp lighting.
Exit counting: choose a unit.
Caution: Pick quantities of Max less 30000

9.3 Set of upper and low limit:

When menu shows A-oFF，press [TARE] to enter，press [SET/0~9] to choose
n or y, n is not auto power off，y is after 10 minutes in zeroing, auto-off.

9.4 Change display mode

When the display shows "FILtX" (FILt1 means one step to display, FILt2
means 3-4 steps to display, FILt3 means 6-8 steps to display, FILt4 means
display is fast). Press [SET/0~9] to change, press [TARE] to confirm and exit.

9.5 Set range of auto-zero:

When the display shows zero, press [TARE], now show zero x.x
(x.x is the range:0.5d,1d,1.5d,2d,2.5d,3d,3.5d,4d,4.5d,5d. d is the division value
when n=3000). Press [SET/0~9] to choose and [TARE] to confirm.

9.6 bUZZEr(set buzzle sound on or off)

When menu shows bUZZEr，press [TARE] to enter，press [SET/0~9] to choose
on or off, press [TARE] to confirm.

9.7 Change division figure

When menu shows d，press [TARE] to enter，press [SET/0~9] to choose division.

9.8 On-rA(choose range of power on)

When menu shows On-rA，press [TARE] to enter，press [SET/0~9] to choose
100, 100 is 100% capacity. Press [TARE] to confirm.

9.9 d-dP(choose single or dual display)

When menu shows d-dP，press [TARE] to enter，press [SET/0~9] to choose n
or y, n is single display，y is dual display, Press [TARE] to confirm.

10 Turn LED lighting

On powering on, long time press [zero/on], it shows LC- ， press [SET/0~9] to choose LU-1 or LU-2．LU-1 is saving mode（commend). Press [TARE] to confirm.

EXTERNAL CALICATION

- Push the adjust key to switch on, the switch is on the bottom of the scale, locked with a seal. .Press " on/zero " key, after a while start to adjust.
- Press "set/0~9" and " on/zero " key the same time, choose weighing units-kg, lb or counting function, press tare to confirm. Then the display shows "c". "c" is the Max. capacity, press "set/0~9" to choose c-600,c-1500,c-3000,c-6000,c-15H9(15kg), c-30H9(30kg) and press "tare" to confirm.
- Now it displays 1/3 Max capacity, then display 0. (If is not 0, press "on/zero")
- Put the displayed weights on the centre of the plat, after it shows stable, press the "tare", it shows 2/3 Max capacity. Then put the displayed weight it displays Max capacity, put the displayed weight. Press "tare".
- Now it shows c-0, "c" is flashing. Now change gravity. Press " on/zero " to add 1 internal number, Press "set/0~9" to reduce 1 internal number. 60000 internal number means the max. capacity. Press "tare" to exit adjustment.
- Push the adjust key to switch off.

BATTERY

- When the battery flashes, that indicates that the user needs to charge the scale. Connect the scale to AC power with the included power cord. The scale is charged when all five bars are lit.
- The power cable is placed inside the battery cover located under the scale.

MAINTENANCE & SERVICE

• Electronic scales are made up of sensitive precision components and microcomputer circuit. So correct use and maintenance is optimal for a long lasting unit.

• Handle with care and avoid strong vibrations, shock or impact.

• When using DC power, you should charge the battery in a timely manner to prevent the battery voltage from being too low lead to function improperly or not power on. When not in use, the scale should be switch powered off to conserve battery.

• If the scale will not be used over a long period of time, the scale should be wiped clean, wrapped in plastic bags preferably with a desiccant. The scale should be charged once every three months to ensure a longer battery life.

• When you want to store the scale, please do not store in direct sunlight or a moist place.

• Do not overload the scale, it could damage the scale and void your warranty.