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# Operating Manual

## Shipping Scales CP Series

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# SAFETY PRECAUTIONS

All safety messages are identified by the words "**WARNING**" and "**CAUTION**". These words mean the following:

**? WARNING** Important information to alert you to a situation that might cause serious injury and damage to your property if instructions are not followed.

**? CAUTION** Important information that tells how to prevent damage to the equipment.

When using the scale, the following safety precautions should always be followed.

## **? WARNING**

**Use only the correct AC adaptor with the scale. Other adaptors may cause permanent electrical damage.**

## **? CAUTION**

Avoid placing the scale in direct sunlight, this may cause discoloration or malfunction.

Replace all batteries at the same time – Do not replace only a portion of the 6 batteries as this may cause a malfunction.

If the scale is not to be used for a long period of time, remove all batteries from the battery compartment to avoid leakage, which may cause damage to this scale.

**Avoid overloading the scale, as this may cause permanent damage and void your warranty – do not EVER exceed the maximum capacity of the scale**

Keep the scale away from water – this scale is not water resistant. Shock, injury and electrical damage can occur if used in a wet location!

Matter charged with static electricity could affect accuracy. Discharge all static electricity. For example, one method is to use Static-Guard spray, and spray it on both sides of the weighing platform.

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# PARTS DESCRIPTION

## **SIDE**

AC adaptor

Socket

**ON/OFF** key

Turns the scale power on/off.

**HOLD KEY**

Remain on the display for 120 seconds.

**UNIT** key

Changes weighing units, eg. kg or lb,.

**ZERO** key (for TARE)

Sets display to zero or

Subtracts weight of a container.

**DISPLAY**

Negative value indicator Weighing unit

Stable indicator

Indicates when the A/D value

reading is stable

Low battery indicator

Hold indicator **ZERO** indicator

Indicates when the reading is stable

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ON/OFF HOLD UNIT Z/T  
2T  
kg  
lb

## **HOLD(send data) FUNCTION**

**Once the hold key is pressed: 1). The CPU will send weight data into RS232 socket. 2)the weight will remain on the display for 120 seconds after the item has been removed from the scale so the weight can easily be read.**

- 1) Place the item on the scale platform.
- 2) Wait for the stable weights to be displayed.
- 3) Press the **hold** key. The “.” hold indicator will turn-on.
- 4) Remove the item from the scale platform. The item’s weight reading will remain on the display for 120 seconds.
- 5) Quit to hold function: Once an item is weighed and the **hold** function is enabled; you want to quit to hold function, Press the **hold** key again to cancel the “.” hold indicator and return the scale to weight value.

## FUNCTION SETTINGS

1. Enter function setting mode.

Press **[ON/OFF]** to turn the power off, Press **[HOLD]** first, then press **[ON/OFF]**, while keeping **[HOLD]** pressed, the display will show **A\_ON** or **A\_OFF**.

2. Selection of auto shut off mode.

When the balance enter function setting menu. the display will show **A\_ON** or **A\_OFF**, Press **[ZERO]** key, selection display **A\_ON**, this means auto shut off function active. Press **[ZERO]** again, the display will show **A\_OFF**, this means auto shut off function inactive.

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## WEIGHING

### Before weighing

Whenever possible, please allow the scale to warm up for several seconds after first turning the power on so that the scale will function properly and accurately.

### Error messages

EEEE: Overload

: Low battery

### Weighing procedures

1. Press **[ON/OFF]** to turn on the scale.

When the power is turned on, all display segments appear for a few seconds and "0" will appear on the display.

2. Select the weighing unit with **[UNIT]**.

Press **[UNIT]** to select a weighing unit "kg", "lb".

Once the unit has been selected, the selected unit will be displayed next to the weight value.

3. Start weighing

#### If you do not use a container for weighing,

Verify the reading is "0". If not, press **[ZERO/TARE]** to display "0".

Place the items to be weighed on the platform.

When the reading becomes stable, the stable weighing is displayed.

#### If you use a container for weighing,

Place an empty container on the platform.

Wait for the stability weighing to be displayed and press **[ZERO/TARE]**.

Place the objects to be weighed in the container.

When the reading becomes stable, the stable weighing displayed.

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## CALIBRATION

### When to calibrate - calibration is almost never required.

If the scale is inaccurate, calibration may be desired when the scale is first set up for use, or if the scale is moved to a different altitude or gravitation. This is necessary because the weight of a mass in one location is not necessarily the same in another location. Also, with time and use, mechanical deviations can occur.

### How to calibrate

\*\*you must have an accurate the full load kilogram weight or combination of weights in order to calibrate\*\*

1. **The scale must be powered OFF.** Press and hold **[ZERO]** first, then Press **[ON/OFF]** while keeping the **[ZERO]** button depressed, then release both keys. The

display will show the A/D value (a series of random numbers).

2. Wait for the stable indicator to be displayed, Press **[UNIT]** the display will show "OSAVE", then the display will return to the random A/D value.

3. Place the full load kilograms weight(s) on platform. Wait for the stable indicator to display, then press **[UNIT]**, the display will show "OSAVE". Calibration is complete, remove the weight(s).

4. Turn the scale OFF (Press the ON/OFF key) , then turn it back ON and check some weight readings. If calibration is still incorrect, repeat calibration but try it more slowly.

If calibration is repeatedly incorrect then: 1) Replace the batteries, 2) Try a more stable surface or vibration and interference free location.

## FEATURES

I Auto shut off (optional) ? Auto calibration

I Auto zero tracking ? AC Power (optional)

I Removable display w/3ft cord ? kg /lb conversion

I Large LCD (6digits 15 mm high) ? hold function

I Large square weighing tray.

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## SPECIFICATIONS

**Model number Capacity Division**

**CP-30** 30kg 10g

**CP-60** 60kg 20g

**CP-100** 100kg 20g/50g

**CP-150** 150kg 50g/100g

Platter / Tray 330×320mm

Net/gross weight 4.1kg/4.5kg

Standard carton: 44.5×34.6×7(cm<sup>3</sup>) Package

5 Units in one box: 46×36×39(cm<sup>3</sup>)

Operating

Temperature

Optimum: 15-30? (62-90f)

6×AA Batteries or AC/DC

Power source Adapter 9V/100mA (optional)

**\*\*SPECIAL WARNING\*\***

**Cell-Phones, Cordless-Phones, and any radio-frequency device can cause temporary interference and cause the scale to temporarily not work properly. Please do not use any electronic device near the shipping scale. Just like in an Airplane, do not use your cell-phone near the scale when it is in use. While there is NO risk of permanent damage to the scale, interference can cause an incorrect calibration or incorrect weight readings.**

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**The use method of computer RS232 socket:** refer to photo Disk.

**ASC II code receive parameter** ( the RS232 transfer parameter)

Baud rate 9600

Parity bit none

Data bit 8

Stop bit 1

