



Inscale Limited

IWS
Washdown Scale



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1. PREPARING TO USE THE SCALE

- 1 Put the scale on a firm level surface, free from vibrations for accurate weight readings.
- 2 Adjust the four leveling feet to set the spirit level making the scale level.
- 3 Avoid operating the scale in direct sunlight or drafts of any kind.
- 4 Make sure there is no weight on the platform before the scale is switched on.
- 5 Once the scale has been switched on, it will go through a LED display test and then re-zero to be ready for use.
- 6 Please note when power indication displays on the screen, the rechargeable battery needs to be charged.
- 7 All goods weighed wherever possible, should be placed in the center of platform for accurate weighing. The footprint of the goods being weighed should not exceed the pan size.

2. INTRODUCTION

2.1 FEATURES

1. ABS plastic inner case with Stainless steel outer case.
2. Multi- weighing units: kg, lb, lb.oz, g, pcs
3. Working temperature: 0°C-40°C.
4. User-friendly design:
 - ✧ IP 68 waterproof protection
 - ✧ Auto calibration
 - ✧ AC / DC power supply
 - ✧ Red LED display with power saving function
 - ✧ Auto power-off to ensure longer battery life

2.2 POWER SUPPLY

1. Power source: Waterproof transformer AC 110~220V / 50Hz, DC 12V / 500ma
2. Rechargeable battery: DC 6V / 4Ah

2.3 LOW BATTERY WARNING

Please note when the battery capacity indication is displayed for a short time, the internal battery needs to be recharged. The scale will power off automatically without recharging after the low battery symbol shows upon for 20 to 30 hours on the display. As a recommendation, the scale should be fully recharged before using the scale again, once this symbol is shown.

2.4 SPECIFICATIONS

Model	IWS-3	IWS-6	IWS-15	IWS-30
Capacity	3kg x 0.5g	6kg x 1g	15kg x 2g	30kg x 5g
Max. Tare	3kg	6kg	15kg	30kg
Resolution	1/3000~1/30000			
Platter size	230 x 185mm			
Display	6 digits RED LED display			
Rated Voltage	AC\DC 100~240V ; 6V/4Ah Rechargeable battery			
Temp. range	0 °C ~ 40 °C			
IP protection	IP68			
Humidity	≤100% RHM			
Dimension	260 x 245 x 110mm			
Gross weight	4.5 KG			



3. LED INDICATION SYMBOLS

Indication	DESCRIPTIONS
STB	Reading is stable.
TARE	There is tare weight in the scale
ZERO	The scale has been zero.
HOLD	Weight reading is held.
<input type="checkbox"/> F / M / L	Battery Capacity
PCS, lb.oz, lb, Kg, g	Weighing unit
HI, OK, LO	Checking weighing



FRONT PANEL KEYBOARD

4. KEYBOARD FUNCTION

KEYS	DESCRIPTIONS
	Turn on / off. The scale will be turned on when pressing the key.
Tare ▶	Deduct the container weight. Press this key to deduct container weight and net weight will display.
Zero ▲	To re-zero the scale. Range of re-zero is $\pm 2\%$ of full scale.
	Weighing unit switching. Confirm Key.

5. PARAMETER SETTING

5.1 FUNCTION SETTING SWITCH

Turn the scale upside down and undo the two screws. Remove the cover and move the black switch to the right as shown in the photos below.



Press and hold **[MODE]** and **[Zero]** for 3 seconds, then the screen will display =====. Press **[MODE]** to enter the menu. It is the menu of general function setting.

5.2 SETTING OF THE AUTOMATIC POWER OFF

Set "OFF = 0"

The display shows **OFF 0** meaning that the indicator is not in a sleep mode. The preset shut down time can be set from always one to auto off after 60 minutes. If there are no changes on weighing value and no operation on keyboard choose to disable auto off.

Press **[MODE]** to confirm and go to the next step. Press **[PRINT]** to adjust the auto off time in increments of 2 minutes for each pres.

5.3 SETTING OF BUZZER

Set "bP on

Press [▲] to select "On" or "OFF" to turn the buzzer on/off. Switching to no buzzer will help reduce power consumption and prolong battery life. Press [MODE] to confirm.

5.4. SETTING OF BACKLIGHT STANDBY MODE

Set " Pr. AB"

A for Standby mode. **B** for the effective time.

A=0, means LED is lighted all the time.

A=1, means Only STB indication is lighted.

A=2, means Only Zero indication is lighted.

A=3, means the Date & time display.

A=4, means the Company name, the date & time display.

B=1~9, means the effective time 1~9min. After the time, the back light mode will operate.

Press [▶] & [▲] to select then press [MODE] to confirm.

5.5 SETTING OF CHECK WEIGHING FUNCTION

Set "-HOL-"

The SCALE has a check weighing function which allows scale to check weigh, making the target set point weight quick and accurate. To skip this function to press [MODE] to go to the next step.

Press [▶] to enter setup menu.

Step 1: The screen displays and "HI" indication is flashing, please press [▶] to enter the highest weight.

If the scale is over this weight, "HI" indication will show the alert buzzer.

Press [▶] & [▲] key to set the point weight, then press [MODE] to confirm and next to step 2

Step 2: The screen displays and "LO" indication is flashing, please set the lowest weight.

If scale is under this weight, "LO" indication is showing the alert buzzer.

Press [▶] & [▲] key to set the point weight, then press [MODE] to confirm and finish.

For example: On a 30kg scale, the desired weight is 10kg, deviation value is ± 0.2 kg.

Step 1: Pressing [▶] & [▲] key to set the point weight “10.20kg”, the screen will display displays 10.20 kg and “HI” indication is showing, then press [MODE] to confirm and go to the Step 2.

Step 2: Pressing [▶] & [▲] key to set the lowest weight 9.80kg, the screen will display, displays 9.80 kg, “LO” indication is showing, then press [MODE] to confirm and go to the next step.

Step 3: After back to normal weighing, load the goods onto the scale, if over or under the two the selected points weight, the “HI” or “LO” indication will be showing with the alert buzzer. But if weight is within the range of setting, the “OK” indication will show without the alert buzzer.

5.6 SETTING OF AUTO SHUTDOWN PROTECTION LEVEL FOR LOW BATTERY

Set “PLo X”.

The display shows PLO XX “XX” means the lowest percentage of battery capacity. When the capacity of battery is lower than the setting value, the scale will shutdown and needs to be charged. This helps to increase the life of battery.

Press [▲] key to select from “0~40” and press [MODE] to confirm and exit to weighing mode.

6. SETTING OF WEIGHING UNIT

Press and hold [MODE] key for 3 seconds, the screen will display Unit = X. This is the menu for selecting units. X is from 0-4 for the different types of weighing unit.

0 =g, 1= kg, 2 = lb, 3= lb.oz, 4= PCS

Press [▲] key to select and press [MODE] to confirm and exit to the weighing mode.

7. COUNTING FUNCTION OPERATION

Attention: In counting mode, the scale isn't allowed to change the weight unit.

This mode is used to indicate the number of pieces of an item that are placed on the pan. To ensure best accuracy, the parts that are counted must be consistent in weight.

The scale uses a sampling method to determine the average pieces weight of the items that are counted.

For example: a 30kg scale, with a sample weight of 200g, and 100pcs of sample

7.1 How to enter into Counting weighing mode.

After set the Unit weight to "Unit= 4" , the screen displays "n 0" and PCS indication.

7.2 Operation

Step 1: Place the sample items on the pan/container all at once.

Step 2: Wait for the weight display to be stable with STB indication showing.

Step 3: Press [MODE] enter to Counting Mode. The screen displays "n.....XXXXX".
"XXXXX" means the number of items that placed in the pan.

Step 4: Press Pressing [▶] & [▲] key to input the sample number, then press [MODE] to confirm.

Step 5: Upload the sample unit and place the item in the pan that need to be counted. The screen displays the total pieces of items and "PCS" indication is on . If need to set new sample, do same operation as above again.

For example:

Step 1: Place the 200g sample unit on the pan.

Step 2: Press [MODE] enter counting mode and it displays " nXXXXX".

Step 3: Press [▶] & [▲] key to input the sample number, and it displays " n 00100".

Step 4: Press [MODE] to confirm and upload the sample unit.

Step 5: Loading the items to be counted, for example, "400g", the screen will then display
"n 200".

8. CALIBRATION

- Step 1:** Open up the cover of Calibration key before calibration, switch the jumper into "ON" .
- Step 2:** Press and hold [MODE] and [TARE] for 3 seconds together, the display shows "====" then release the buttons, it will display "CAL SP".
- Step 3:** Press [▶] to enter calibration mode, "CAL 0" which denotes that there is nothing being weighed on the scale will display on the screen.
- Step 4:** Press [MODE] to enter mode for automatic zero correction and "-----" will be displayed. After few seconds, the calibration weight will be show on the display.
- Step 5:** Load the weight on the scale. After the Stable indication displays, press [▶] to select digit position (the selected digit position will blink). The digit position will carry forward to the right side with every press [▶]. Press [Print / ▲] to set the digit among 0~9. Repeat the above operation till is displayed, then press [Mode] to confirm.
- Step 6:** "-----" will be displayed on the screen automatically after finishing the operation.
- Step 7:** *For example if a 10kg weight is used for calibration then "10.00kg" displays on the screen, it shows calibration to the known mass. In case of error please recalibrate again. If the error still exists there could be a fault with the scale.*
- Step 8:** Remove the weight and a reading "0.00kg " will show and Zero indication will show denoting there is nothing being weighed on the scale.
- Step 9:** The scale will return to weighing mode after calibration is finished.

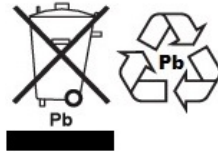
Attention: Do remember to switch the jumper into "OFF" position and seal the cover again. This locks the calibration and protects from accidental calibration, as well as securing the waterproof properties of the scale.

10. ERROR CODES

The following are error codes when the scale has a problem.

- Error 1:** means calibration isn't working, the weight is too light or the division is too high.
- Error 2:** means wrong zero, check the load cell for damage.
- Error 3:** means displayed value exceed display range after unit change.
- Error 4:** means ISN=0
- Error 5:** means overload, loaded weight exceeds the full range.
- Error 6:** means cannot zero.
- Error 7:** means cannot tare.
- Error 8:** means cannot accumulate.
- Error 9:** means cannot make the unit conversion.
- Error 10:** means no battery connection or the battery is damaged.

WEEE 2012/19/EU



This device may not be disposed of in domestic waste. This also applies to countries outside the EU, per their specific requirements. Disposal of batteries (if fitted) must conform to local laws and restrictions. Cet appareil ne peut être éliminé avec les déchets ménagers. L'élimination de la batterie doit être effectuée conformément aux lois et restrictions locales.

Dieses Gerät nicht mit dem Hausmüll entsorgt.

Dispositivo no puede ser desechado junto con los residuos domésticos

Dispositivo non può essere smaltito nei rifiuti domestici.

FCC / IC CLASS A DIGITAL DEVICE EMC VERIFICATION STATEMENT

NOTE: This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC rules and Canadian ICES-003/NMB-003 regulation. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

WEEE COMPLIANCE



Any Electrical or Electronic Equipment (EEE) component or assembly of parts intended to be incorporated into EEE devices as defined by European Directive 2002/95/EEC must be recycled or disposed using techniques that do not introduce hazardous substances harmful to our health or the environment as listed in Directive 2002/95/EC or amending legislation. Battery disposal in Landfill Sites is more regulated since July 2002 by regulation 9 of the Landfill (England and Wales) Regulations 2002 and Hazardous Waste Regulations 2005. Battery recycling has become topical and the Waste Electrical and Electronic Equipment (WEEE) Regulations are set to impose targets for recycling.

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- Analytical and precision balances
- Compact and portable balances
- High capacity balances
- Moisture analysers / balances
- Mechanical scales
- Counting Scales
- Digital weighing/check-weighing scales
- High performance platform scales
- Crane scales
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www.inscale.co.uk

Maidstone Road, Kingston, Milton Keynes,
Bucks, MK10 0BD, United Kingdom
Telephone: 0800 612 9007
VAT No: GB 936846676
E-Mail: sales@inscale.co.uk