

Bench Scale

Model: BS



You have purchased a quality precision weighing instrument that requires handling with care.

Read entire contents of this **Operating Manual** prior to operating your new instrument.

Disclaimer Notice

Calibrate your instrument using reference weights of the appropriate tolerance (class).
An instrument can be no more accurate than the standard to which it has been compared.
For assistance in the selection of reference weights, please contact the factory.

Caution: Changes or modifications not expressly approved by the manufacturer could void the user's authority to operate this equipment.

Introduction

Thank you for choosing one of our instruments. Your instrument is designed and manufactured to the most rigorous standards in order to give you years of service.
First, check the contents of the shipping carton. You should find the following :




* **Manual** * **Instrument** * **AC Adapter**

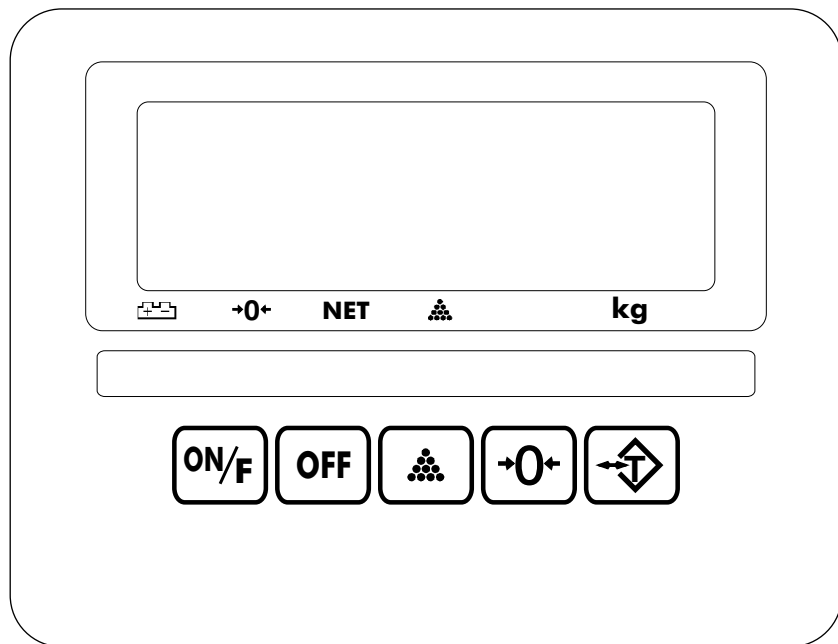
Next, follow the instructions for installing your instrument.

Now you are ready to begin using your instrument. To take advantage of its many features, carefully read your operating manual.
It contains step-by-step procedures, examples, and other vital information.

Warning: Use of this product in a manner not specified by the manufacturer may impair any safety protection provided by the equipment!

Error message

Symptom	Cause	Solution
	Over load :	
	* Weighing range exceed	> Unload scale or reduce preload
	Under load :	
	* Weighing pan not in place	> Ensure the weighing pan is correctly installed and surrounding parts are not touching
	* Weighing range zero below	> Set scale to zero
	* Contact between weighing	> Apply pre-load
	Zeroing not possible :	
	* Zeroing outside the zero setting range	> Ensure that zeroing is performed in the admissible range (20% of Cap.)



Function keys



- a. Turns instrument **On**.
- b. Function key. Used for toggle switch between display weight, check-weigh or total accumulation.



Turns instrument **Off**.



Used for parts counting.



Captures a new center of zero.




Reduce gross weight on pan as tare weight.


Operation

1. Taring (Zeroing)

All models have taring (zeroing) capabilities up to their total weight capacity. To weigh a sample in it's container with the display showing the weight of the sample use the following Zero (tare) procedure.

- a. Place sample container on pan and then press  key.
- b. Now place sample in it's container.
- c. When the balance is stable, the display shows the weight of the sample.

2. Counting Function

- a. Count the desired amount sample pieces (10, 20, 50 or 100 total pieces)
- b. Pres  key to display total count numbers of 10, 20, 50 or 100.

This number will cycle, press  key gain to select sample size once It is displayed. The arrow at the bottom of the display will point to "  ".

- c. You are now ready to perform parts counting of those specific pieces.

Press  key for he total weight.

Repeat step **a** through **c** for each type of piece to be counted.

Programme

Shown on the display:

Press and hold any key while powering **ON**. The display will show

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Press $\left[\frac{F}{\text{}} \right]$ key goes to **programme sequence**.

Press $\left[\frac{F}{\text{}} \right]$ key for **parameter selecting** and

Press $\left[\leftarrow \rightarrow \right]$ key for **setting and goes to next step**. The programme sequence as follows:

A. Auto zero	AO 0	None
	AO 1	ATZ 1d
	AO 2	ATZ 2d
B. Auto power off	ROFF 0	None
	ROFF 1	5 minutes after
	ROFF 2	10 minutes after
	ROFF 3	20 minutes after
	ROFF 4	30 minutes after
C. Backlit	bL 0	None
	bL 1	Active
	bL 2	Auto lighting while loading

Calibration

Shown on the display:

1. Please have the jumper Jp3 switch OFF before you start to calibrate weight.

2. Press and hold any key while powering ON.
The system goes to **Calibration mode**.

3. Press $\left[\leftarrow \rightarrow \right]$ key goes to CAPACITY mode.

Press $\left[\frac{F}{\text{}} \right]$ key to select Maximum Capacity.

4. Press $\left[\leftarrow \rightarrow \right]$ key goes to SPAN mode.

(Offset value to be displayed around 5000 ~ 50000)

5. Press $\left[\rightarrow 0 \leftarrow \right]$ key to make display to zero.

6. Put on the calibrating weight in kg.

(Span value to be 50000 ~ 150000 at full capacity)

7. Press $\left[\leftarrow \rightarrow \right]$ key to cycle through a list of permissible weights.

When the weight on the scale is displayed, press $\left[\leftarrow \rightarrow \right]$ key the weight calibrating to be done.

8. After finish the weight calibration, make the Jp3 switch ON.

Now you are ready to weigh.

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F 2000
C.200000

12222
0

122222
20000

Specifications

Model	BS-Series
Display	LCD, height 25mm
Pan size	320 x 430 mm (W x L)
Ambien Temperature	0~40°C 85 RH
Power Supply	9V/500mA, AC adapter Built in 6V Rechargeable-battery. Battery operating limited at 5.5V and display will show $\left[\text{L o b R t t} \right]$. In this time the instrument should be charged.

Preparation

This product is intended for indoor use.

- * Select a suitable work area.
- * Work area should be relatively free from drafts and vibrations.
- * Work surface should be level and rigid.
- * Do not locate near magnetic material or equipment/instruments which use magnets in their design.
- * Avoid area which have variations in room temperatures or have excessive room temperatures. Room temperatures above 40°C or below 0°C could affect instrument operation and accuracy.

Installation

Remove instrument and accessories from the carton.

Save packing material for transportation purposes.

- * If using the AC adapter, insert power cord into the receptacle located on the rear left side. Firmly push in the plug.
- * Allow the instrument to warm up for 30 minutes prior to use.
Your instrument features a numeric display that continuously shows your weighing results.