



User's Manual





Ref.: 49BPS5MEN06 Rev.: 06


PS-50M

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1. WARNINGS

	 CAUTION
	<p>DISCONNECT ALL POWER FROM THIS SCALE BEFORE INSTALLING, CLEANING OR REPAIRING. IF NOT DONE IT COULD CAUSE PERSONAL INJURY OR DAMAGE THE SCALE.</p>

 CAUTION
<ul style="list-style-type: none"> • Allow only qualified personnel to repair the instrument. • Before connecting or disconnecting any component, disconnect the power supply. • Failure to observe these precautions may result in personal injuries or damage or destruction of equipment.

- The scale is a precision electronic instrument, it must be handled with care.
- Do not install the balance under direct sunlight.
- Check that the local voltage is correct for the balance.
- Use only the original power adaptor, others could cause damage to the balance.
- The scale should be installed near an easily accessible power socket.
- Avoid unstable power supplies.
- Do not use it near high-power equipment, such as welding equipment or large motors.
- • Avoid sudden changes in temperature, vibrations, wind, and water.
- • Avoid heavy RF noise.
- • Keep the scale clean.

2. INTRODUCTION

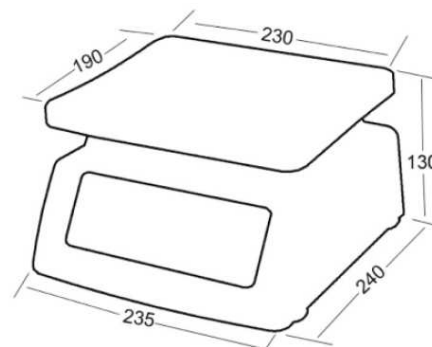
The series PS50-M offers a precise, rapid and versatile only-weight scale for all uses. There are 3 weighing scales models in this range. The platform size is 190mm x 230mm, and the capacity ranges from 3 kg to 15 kg.

All keypads are sealed, membrane switches are colour-marked and displays are easy-to-read, large-sized liquid crystal displays (LCD). The LCD are equipped with a backlight.

All units include tare, zero and backlight

3. SPECIFICATIONS

PS50-M			
Range	3kg	6kg	15kg
Step	1g	2g	5g
Resolution	3,000		
Maximum tare	-3kg	-6kg	-15kg
Minimum weight	20g	40g	100g
Plate size	190mm x 230mm		
Units of weight	kg		
Other functions	Beeper, backlight, stainless steel plate		



4. INSTALLATION

4.1. GENERAL INSTALLATION

The scales should be placed on a firm, even surface.

The operation of the scale is sensitive to its levelling and to changes in geographical location. In case of doubt regarding the change of location, consult the manufacturer.

Make a proper levelling of the scale, on its final placement by means of the bubble level



Avoid extreme temperatures. Do not place the scales in direct sunlight or near air conditioning vents.

Avoid unstable tables. The tables and the ground should be firm and not vibrate. Do not place the scales near vibrating machinery.

Avoid unstable electricity sockets. Do not use the scales near equipment with high electrical power consumption such as soldering equipment or large motors.

Avoid high humidity that can cause condensation. Do not submerge the scales in water.

Avoid draughts such as those from fans or open doors. Do not place the scales near open windows.

Keep the scales clean.

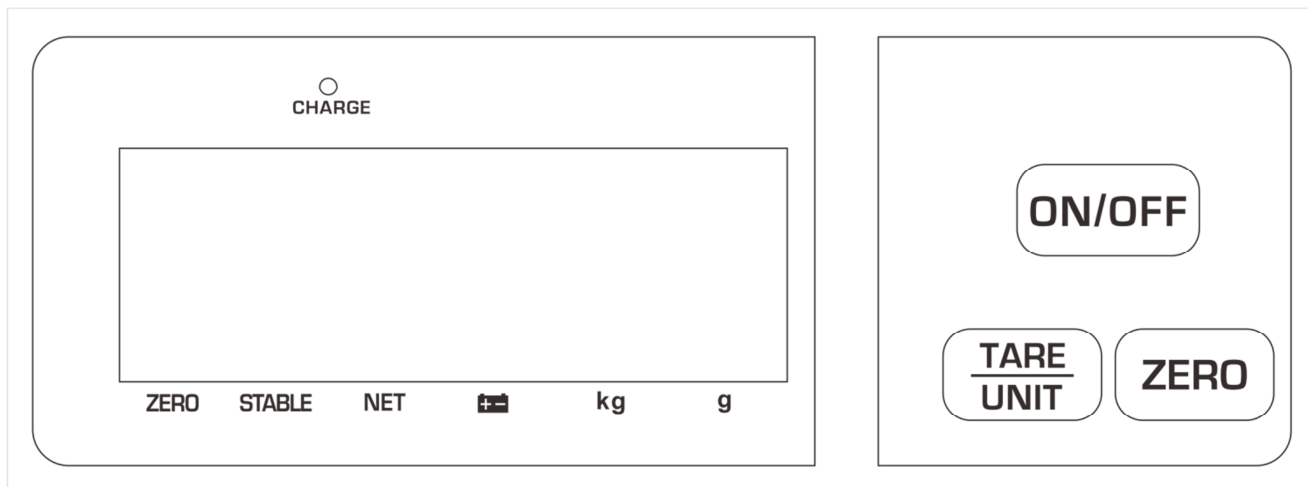
Do not stack anything on the scales when they are not in use.

4.2. INSTALLATION OF SERIES PS50-M

Weighing scales series PS50-M uses an AC/DC voltage adapter and can also be used with a rechargeable battery. Please check that the power supply voltage matches that stated on the adapter.

The socket for the voltage adapter is situated under the scales.

5. COMPONENTS



5.1. DESCRIPTION OF KEYS

KEY	DESCRIPTION	
	PRIMARY FUNCTION	SECONDARY FUNCTION
	This switches the scales on and off	
	Press this key to tare the scales.	Sets parameters and other functions.
	Sets the scales to zero	Selects each parameter and its respective options.

5.2. DISPLAY

The LCD display shows one value and different signs under the digits.

: zero indicator

: stability indicator


NET : tare indicator: current weight in net weight mode

Bat. Lo : low battery indicator. Charge the battery when this indicator lights up

kg : unit of weight is kg

6. OPERATION

6.1. MANUAL ZERO SETTING


Press  at any time in order to make a manual zero setting. When the zero point is obtained, the display will show the zero indicator.


The scales are provided with a manual zero setting function in order solve minor problems in weight deviation or accumulation of materials on the platform.

6.2. SETTING THE TARE


Set the scales to zero using  if necessary. The zero indicator will appear.

Place some packaging on the platform and a weight value will appear.

Press  to set the tare of the scales. The weight that appeared on the display is saved as the tare value and that value is deducted from the display, which returns to zero. The "NET" indicator will be activated. When a product is added, only the product weight will be shown. The scales may be tared for a second time if another type of product is added to the first. Again, only the additional weight will be shown after the tare has been set.




When the packaging is removed, a negative value will be shown. If the scales are tared before the packaging is removed, this value will be the gross weight of the packaging plus all the product that was removed. the zero indicator will also light up because the platform returns to the same situation as when  was pressed.

6.3. CHANGE OF UNIT

Press the key  to switch the weighing unit between kg and g.

7. CONFIGURATION







7.1. ACCESS TO CONFIGURATION MODE

To set the configuration parameters or enter in calibration, switch on the equipment while pressing . **F0 CAL.** will appear. To exit Configuration mode press simultaneously the key  and .







7.2. CONFIGURATION MENUS

Menu	Description	
F3 bk	Backlight configuration	
	au	Backlight off when the scale is not in use.
	of	Backlight always Off
	on	Backlight always On
F5 Off	Automatic Off Mode (Sleep) Configuration	
	0	Disabled
	3 min	The scale will automatically swithc off in 3 minutes
	5 min	The scale will automatically swithc off in 5 minutes
	10 min	The scale will automatically swithc off in 10 minutes
	20 min	The scale will automatically swithc off in 20 minutes
F9 tar	Multi-Tare	
	on	Multi-tare
	off	Only one tare
F10 rt	Factory Reset	







7.3. SETTING THE BACKLIGHT MODE

Switch on the equipment while pressing , the display will show "**F0 CAL**". Press  three times and the display will show "**F3 BT**". Press  to enter, then press  to change the backlight mode (AU: automatic, OFF: deactivated, ON always activated). Press  and  simultaneously to exit.



7.4. SETTING TIME FOR AUTOMATIC-OFF MODE (SLEEP)

Switch on the equipment while pressing , the display will show "**F0 CAL**". Press  five times and the display will show "**F5 oFF**". Press  to enter, then press  to change the time until entering in sleep mode (options: "oN", 3, 5, 10 and 20 minutes). Press  and  simultaneously to exit.

7.5. SETTING TARE MODE

Switch on the equipment while pressing , the display will show "**F0 CAL**". Press  nine times and the display will show "**F8 TARE**". Press  to enter, and then press  to change the value, options: ON = the scale can be tared only once, OFF = the scale can be tared repeatedly. Press  and  simultaneously to exit.

8. ERROR CODES

ERROR CODES	DESCRIPTION	SOLUTION
- -OL -	Above the range	Remove the weight from the scales. If the problem continues, contact your distributor for assistance.
Err 4	Zero setting error	The scales were not correctly set-up in the zero range, or they were switched on when was pressed  . Remove the weight from the scales and try again. Use  to set the display to zero. If the problem continues, contact your distributor for assistance.
Err 6	A/D out of range	The A/D converter values are out of the normal range. Remove the weight from the scales if there is excessive weight and check that the platform is in position. This error may indicate that the platform or electronics may not be working correctly. If the problem continues, contact your distributor for assistance.
- - - -	Negative weight	Weight under 0. Restart the scale.
Bat lo	Low battery	Recharge the battery. Verify the voltage
Err 17	Tare out of range	Restart the scale
Err 3	Calibration Error	Recalibrate the scale

9. BATTERY OPERATION

The weight indicator can operate with batteries if required. The battery will last approximately 100 hours.

When the battery needs recharging, the symbol BAT LO is shown on the indicator. The battery must be recharged when this symbol appears. The scales will continue to work for about 10 hours and then they will shut down automatically to protect the battery.

To charge the battery, simply plug it into an electricity socket. It is not necessary to switch on the scales.

Recharge the battery for 24 hours in order to completely recharge it.

Immediately below the count display there is a LED to indicate the battery charge status. When the scales are plugged into the mains, the internal battery will be charged. A green LED indicates that the battery is fully charged. A red LED indicates that the battery is almost totally discharged and yellow means that the battery is being recharged.

In the course of use, the battery may lose its capacity to be fully charged. If the battery does not last long enough, please contact your distributor.

Note: new batteries are only partly charged. Before using the scales, insert and charge the battery following the instructions provided below.

Some batteries will perform better after several full cycles of being charged/discharged.

Battery performance depends on many different factors, including the configuration of the backlight and operation.



Never use a damaged battery charger or battery.

Never short-circuit the battery. An accidental short-circuit may occur if a metallic object (coin, paper clip, ballpoint pen) makes a direct connection between the battery's + and – poles (the battery's metal connectors), and this may occur, for example, if the battery is carried in your pocket. Short-circuiting the poles may damage the battery or the object that causes the connection.

Do not throw batteries into fire.

Discard batteries in accordance with local policy (e.g., recycling bin).

Do not discard batteries in home rubbish bins.

Avoid charging the battery in a poorly ventilated room.

In order to maximise battery performance:

Always use original batteries and AC adaptors. The scales' guarantee does not cover damage occurring as a result of the use of any other batteries and/or chargers that are not the originals.

The AC adapter output voltage is 9V, but normal voltage ranges go from 11 to 15V.

New batteries and batteries that have been stored for a long period of time may take longer to charge.

Keep the battery at room temperature or similar temperature when charging.

Do not expose batteries to temperatures of less than -10°C or more than 45°C.

After a long time, batteries gradually lose their charge capacity and require longer charging times.

This is normal. If you charge the battery regularly and observe that the operating time is decreasing or the charging time is increasing, it would probably be wise to purchase a new battery.

10. DECLARATION OF CONFORMITY

Scan the QR code or click on the link below to view the declaration of conformity.



<http://www.dibal.com/DeclaracionesCely/>

The information contained in this manual can be changed by the manufacturer without prior notice.

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