CELY

User's Manual

PS-50/60

ONLY WEIGHT SCALES

CONTENTS

1. INTRODUCTION

NOTE: These scales are not allowed for the uses mentioned in paragraph 2a of the article 1st of the Directive 90/384/CE, therefore they are not valid for commercial transactions

The series PS-50/60 offers a precise, rapid and versatile only-weight scales 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 (LCDs). The LCDs are equipped with a backlight.

All units include tare, zero, change unit of weight, change division function.

Weighing scales series PS-60 is equipped with dust and liquid protection equivalent to IP-68.

2. SPECIFICATIONS

PS-50/60 SERIES			
Model no.	PS-50/60-3	PS-50/60-6	PS-50/60-15
Range	3kg	6kg	15kg
Step	1g/0.5g	2g/1g	5g/2g
Resolution	1/3,000 or 1/6,000		
Maximum tare	3kg	6kg	10kg
Minimum weight	20g/10g	40g/20g	100g/40g
Plate size	190mm x 230mm		
Units of weight	kg		
Optional functions	Beeper, backlight, stainless steel plate		

3. INSTALLATION

3.1. GENERAL INSTALLATION

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

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.

3.2. INSTALLATION OF SERIES PS-50/60

Weighing scales series PS-50/60 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.

 Make a weight calibration as shown in paragraph 7.2 (Calibration)

---

4. DESCRIPTION OF KEYS

KEY	DESCRIPTION	
	PRIMARY FUNCTION	SECONDARY FUNCTION
⏻	This switches the scales on and off	
TARE UNIT	Press this key to tare the scales. Keep the key pressed for 4 seconds in order to change the unit of weight.	Sets parameters and other functions.
→0←	Sets the scales to zero	Selects each parameter and its respective options.

5. 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   **:** current unit of weight is kgs
Lb   **:** current unit of weight is lbs

6. OPERATION

6.1. MANUAL ZERO SETTING

Press →0← 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 →0← if necessary. The zero indicator will appear.

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

Press TARE UNIT 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 [→0←] was pressed.

6.3.   CHANGE UNIT OF WEIGHT

Keep [TARE UNIT] pressed for 4 seconds and the unit of weight will change. The selected unit of weight will light up (kg or lb).

7. CONFIGURATION

7.1.   ACCESS TO CONFIGURATION MODE

The scales have 7 parameters configuration parameters that can be set-up by the user, and there is also a method for entering calibration.

To set the configuration parameters or enter in calibration, switch on the equipment while pressing [TARE UNIT]. F0 CAL. will appear.

7.2. CALIBRATION

After entering Configuration mode, the display will show the first function "CAL". Press [TARE UNIT] and the display will show "UNLOAD". Ensure the plate is empty and when the STABLE indicator is activated, press [TARE UNIT] again. The display will show the calibration weight. Press [→0←] to select a calibration weight (in kg) (Ex: A0 2, A1 4, A2 6). After selecting the weight, press [TARE UNIT] and the display will show "LOAD". Place the calibration weight on the scales and the STABLE indicator will be activated. Press [TARE UNIT] to save. The display will now show "PASS". The scale will then perform an auto-check and the scales will be ready for use.

7.3.   CHANGE OF STEP

After entering Configuration mode, the display will show "F0 CAL". Press [→0←] and the display will show "F1 INC". Press [TARE UNIT] to enter, then press [→0←] to select the 0.5 or 1.0 g step. Press [TARE UNIT] to save. Press [→0←] and [TARE UNIT] simultaneously to exit.

7.4.   VERIFICATION OF INTERNAL DIVISIONS

After entering Configuration mode, the display will show "F0 CAL". Press [→0←] twice and the display will show the internal counts. Press [TARE UNIT] and [→0←] simultaneously to exit.

7.5. SETTING THE BACKLIGHT MODE

After entering Configuration mode, the display will show "F0 CAL". Press [→0←] three times and the display will show "F3 BT". Press [TARE UNIT] to enter, then press [→0←] to change the backlight mode (AU: automatic, OFF: desactivated, ON always activated). Press [TARE UNIT] and [→0←] simultaneously to exit.

7.6. SETTING THE SECONDARY UNIT

After entering Configuration mode, the display will show "F0 CAL". Press [0] four times and the display will show "F4 unt". Press [TARE UNIT] to enter, then press [0] to change the secondary weighing unit. Press [TARE UNIT] and [0] simultaneously to exit.

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

In Configuration mode, the display will show "F0 CAL". Press [0] five times and the display will show "F5 oFF". Press [TARE UNIT] to enter, then press [0] to change the time until entering in sleep mode (options: "oN", 3, 5, 10 and 20 minutes). Press [TARE UNIT] and [0] simultaneously to exit.

7.8. SETTING HIGH OR LOW SPEED

After entering Configuration mode, the display will show "F0 CAL". Press [0] six times and the display will show "F6 FLT". Press [TARE UNIT] to enter, then press [0] to change the average time before the filter starts operating, options: 1,2,3,4. If the value is high, the weight is more precise. Press [TARE UNIT] and [0] simultaneously to exit.

8. 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.

9. ERROR CODES

ERROR CODES	DESCRIPTION	SOLUTION
- -OL -	Above the range	Remove the weight from the scales. If the problem continues, contact your distributor or CELY 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 ⌊·0·⌋. Remove the weight from the scales and try again. Use ⌊TARE UNIT⌋ to set the display to zero. If the problem continues, contact your distributor or CELY 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 or CELY for assistance.

| CELY | DECLARATION OF CONFORMITY | AENOR ER Empresa Registrada ER-0292/1/96 / I&Net ISO 9001 | CE |

Manufacturer:

CELY

Type:

PS-50/60 Series

(E)

The aforementioned manufacturer declares that the apparatus described herein complies with the requirements contained in Directive 89/336/CEE and 73/23/CEE and, where applicable, to the following harmonised regulations:
- EN55022 Class B
- EN61000-4-2
- EN61000-4-3
- EN61000-4-4
- EN60950

Ref.: 49-MCEPS56EN03   Rev.:03

02/09/05