GRAM

SERIES
MM
6000

OPERATION MANUAL

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ENGLISH

PRECAUTIONS BEFORE USING THE BALANCE

1. Please keep the scale in a cool and dry place. Do not store at high temperatures.

2. Do not allow any liquids to come into or contact with the scale. If it happens, wipe the scale dry with a cloth.

3. Avoid objects impacting with the scale. Do not drop loads onto the scale or subject the weigh pan to any strong shocks loads.

4. The load placed on the platterm must not exceed the maximum weighing capacity of the scale.

5. If the balance is not going to be used for some time, please clean it and store it in a plastic bag in dry conditions. A desiccant sachet may be included to prevent moisture build up.

6. Do not mix different types of dry batteries or mix used dry batteries with new dry batteries.

OPERATION ADVICES

1. For accurate weight readings, locate the scale on a firm level surface free from vibrations.

2. Avoid operating the scale in direct sunlight or drafts of any kind.

3. Remove any weight that might be on the weighing pan before the scale is switched on and avoid leaving weight on the pan for long periods of time.

4. Once the scale has been switched on, it will go through a LCD or LED display test and then re-zero to be ready for use.

5. For best accuracy switch the scale on for 1 to 2 minutes before use.

6. Please note when symbol appears on the screen, the dry batteries need to be replaced.

7. All goods weighed should be places on the centre of the weighing pan for accurate weighing. The overall dimensions of the goods being weighed should not exceed the dimension of the weighing pan.
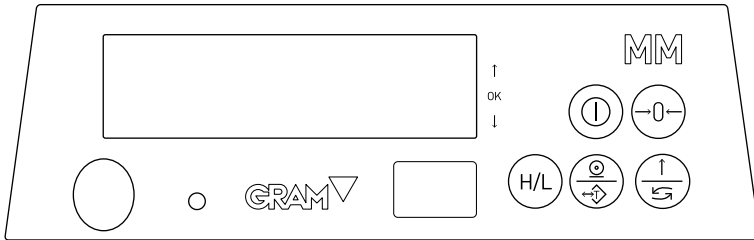
BASIC SPECIFICATIONS

|	
Square tray size :	176mm x 176mm
Display :	Large screen LCD display, 5.5 digits, 15mm height
Power supply :	Three batteries (R6P/LR6/AA size), DC 5V/200mA
	AC/DC Adaptor, 5V/0.6A
Backlight :	Auto-backlight
Operating temperature : 0-40ºC	

KEYPAD DESCRIPTION

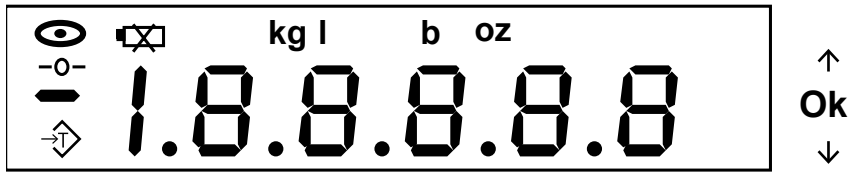## KEYPAD FUNCTIONS

Power switch

Zero key to re-zero the weight

Tare key to deduct the container weight

Select the unit : units optional refer to faceplate

Preset High and Low limits.

EXPLANATION OF SYMBOLS

−O−   Zero indicator.

⇥T⟩   Tare indicator.

◉   Stable indicator.

⊠   Low battery indicator. Indicates that the batteries should be replaced.

Kg   Kg unit. When « Kg » is displayed, it means the weight shown is in.

g   g unit. When « g » is displayed, it means the weight shown is in g.

lb   pound unit. When « lb » is displayed, it means the weight shown is.

oz   ounce unit. When « oz » is displayed, it means the weight shown is.

↑   High preset weight limit.

Ok   Between low and high preset weight limit.

↓   Low preset weight limit.

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OPERATION

TURN ON THE SCALE

Press the (①) key to turn on the scale. The scale will go through a quick warm up procedure and test and then it will be ready for use.

UNITS SELECTION

Press the (↑⇄) key to choose the needed unit weight, and the unit indicator will be shown. There are four units available: kg, g, lb and oz

TARE FUNCTION

1) Put a container on the weighing pan, when the reading is stable press the (⊙⇄) key.
The tare weight will be stored into memory and display will be brought to zero. The indicator →⟩ will appear on the display.
Put the product into the container, the weight displayed is the net weight.
To cancel the tare mode, press the (⊙⇄) when no load on the weighing pan.

2) Tare range: Up to scale´s maximum capacity.

ZERO FUNCTION

Press the (→0←) key to re-zero the display if the reading is not zero with no load on the weighing pan. At this moment the indicator ─O─ will appear.
Zero range: 5% of the capacity of the scale.

POWER-OFF AND AUTOMATIC POWER-OFF

1) Press the (①) key directly to turn off the balance.

2) The scale will automatically turn off, if the scale is in a stable condition and non operation for 2 or 5 minutes.

CHECK WEIGHING MODE

Example: Low limit: 200g   High limit: 3000g

Setting low limit

Low limit is higher than 9d (d=division)

Press and hold the (H/L) key for more than 2 seconds to set the low limit value, the display will show "LXXXX". Press the key to shift the twinkling number, press the key to increase the value.

Example : « L0200 » means low limit is 200g

Press the →0← key to confirm, then enter to set the hight limit.

Setting high limit

The display will show « HXXXX ». Press the key to shift the twinkling number. Press the key to increase the value.

Example : « H3000 » means high limit is 3000g

Press the →0← key to confirm, then return to normal weighing mode.

The status of « beep mode » as indication

Recalling check-weighing values :

1) Press (H/L) → → L 0 2 0 0 (Low limit)

2) Press (H/L) → → H 3 0 0 0 (High limit)

3) Press (H/L) → → 0. 0 0 0 (Return to normal weighing mode)

According to the combination of Low and High limit, there are five modes :

	FUNCION L	IMITE INF.	LIMITE SUP.	La zona sombreada es el indicador de aviso
0	Sin señal acústica 0	0		⊢——————————————⊣ 0 MAX
1	Cuando el peso es igual o está por encima del límite superior, la balanza emite una señal acústica	0	HIGH	⊢————⊢//////////⊣ 0 HIGH MAX
2	Cuando el peso es igual o está por debajo del límite inferior (debe ser superior a 9d), la balanza emite una señal acústica	LOW 0		⊢//////////⊣————⊣ 0 LOW MAX
3	Cuando el peso está entre el límite inferior y el superior, la balanza emite una señal acústica	LOW H	IGH	⊢———//////////———⊣ 0 LOW HIGH MAX
4	Cuando el peso es igual o está por debajo del límite inferior (debe ser superior a 9d) o el peso es igual o está por encima del límite superior	HIGH	LOW	//////⊣————//////⊣ L HI H MAX

EXTERNAL PARAMETERS SETTING

Press and hold the (↑/S) key, then press the key (①) to turn on the scale and enter to setting parameters.

1. AUTOMATIC POWER-OFF FUNCTION SETTING.

Off 0 : Shut up the automatic power-off funcion

Off 1 : 2 minutes automatic power off

Off 2 : 5 minutes automatic power off

Use the ⊘ key to choose and use the →0← key to confirm.

2. BACKLIGHT FUNCTION SETTING

BL 0 : Backlight function is closed.
BL 1 : Backlight function is open.

Use the ⊘ key to choose and use the →0← key to confirm.

3. BEEP STATUS SETTING

Bp 0 : Whether stable or not, the buzzer beep
Bp 1 : When stable, the buzzer beep

Use the ⊘ key to choose and use the →0← key to confirm, then return to normal weighing mode.

CALIBRATION

1) Press and hold the →0← key, then press the ⏻ key to turn the scale, the display will show « CAL »·

2) Remove all objects from the weighing pan, press again the key →0←, the screen will show « 0 0 0 0 »

3) Press the ⊘ key to shift the twinkling number, press the ↑ key to increase the value.

4) Place the calibration weight on the weighing pan which value is equal to the number on the tray (unit : g) (eg . the shown number is 6000, that means you should place a weight of 6000g on the pan) and then press the →0← key to

confirm, if success it will return to normal weighing status.

NOTE : If after calibration you scale does not read accurately, it means the calibration is failed and the calibration process should be repeated more slowly.

ERROR MESSAGES

«- - - - - -«   Indicates that the scale is overloaded.

« Lo »   Indicates that the voltage of the batteries i slow, and the
                    scale can´t work normally.

« oUtZ »   Indicates that the weight of the objects on the tray is
                    outside the zero-resetting range.

« Err1 »   Indicates that the calibration is failed.

GUARANTEE

This scale is guaranteed for one year from the delivery date. The guarantee covers any fabrication defect of the material.

During this period GRAM PRECISION, covers the manpower and the spare parts necessary for the reparation of the scale.

This guarantee does not cover the failures caused by an inappropriate use or overcharge.

The guarantee does not cover the freight cost (transport) necessary to repair the scale.

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