

# MARSDEN

## USER MANUAL

# B-400

Please take time to read these instructions before starting to use the scale



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## Product Specification

Model	B-400
Capacity/Division	6kg x 1g; 15kg x 2g; 30kg x 5g
Display Resolution	1/6,000; 1/7,500
Weight of Scale	3.7kg
Units of Measure	Kg/g
Dimensions	Platter: 252mm x 255mm Overall size: 285mm 255mm x 90mm
Function Keys	ON/OFF, TARE/ZERO, UNIT, HOLD
Display	35mm LCD digital display with green and red backlight, 5 digit 6 segment, 25mm character height
Power Supply	4x AA batteries or 15V 300mA adaptor
Operating Temperature	0 to +40°C
IP rating	67
Warranty	1 year

Please note: Marsden's policy is one of continuous development and therefore we reserve the right to change product specification without notice.

### Disposal



In conformance with the European Directive 2012/19/EU on Waste Electrical and Electronic Equipment (WEEE), this device may not be disposed of with domestic waste. This also applies to countries outside the EU, according to their specific requirements.

Please dispose of this product in accordance with local regulations at the collecting point specified for electrical and electronic equipment. For more detailed information about recycling this product, please contact the local distributor from which you purchased this device.

# Safety Instructions

Before putting this scale into use, please read with care the information given in this user manual, which contains important instructions for proper installation, use and maintenance of the device.

Marsden/the manufacturer shall not be liable for damages arising from failure to heed the following instructions:

- When using electrical components under increased safety requirements, always comply with appropriate regulations.
- Inappropriate installation/use will render the warranty null and void.
- Ensure the voltage marked on the power supply unit matches your mains supply.
- Observe the permissible ambient temperatures for use.
- The device meets the requirements for electromagnetic capability. Do not exceed the maximum values specified in the applicable standards.
- Do not allow liquids or foreign objects to enter the inner workings of the scale.
- Do not drop loads on the scale or leave heavy loads on the scale for extended periods of time. This may damage the loadcells.
- Do not place the scale upside down on the pan.
- Do not open the scale. Never attempt to make repairs yourself. Any attempts to open or repair the scale by anyone other than authorised personnel will render the warranty null and void.
- Always disconnect the device from the power supply before installing, servicing or performing maintenance.
- Check the power cable for damage at regular intervals. If it is damaged, immediately disconnect the device from the power supply.

If you have any problems, contact Marsden/your local dealer/your service partner.

## Cleaning

- Please do not use corrosive liquids to clean the scale.
- Clean with a damp cloth and mild soap or similar agents if necessary.
- Always disconnect the scale from the mains power supply before cleaning.

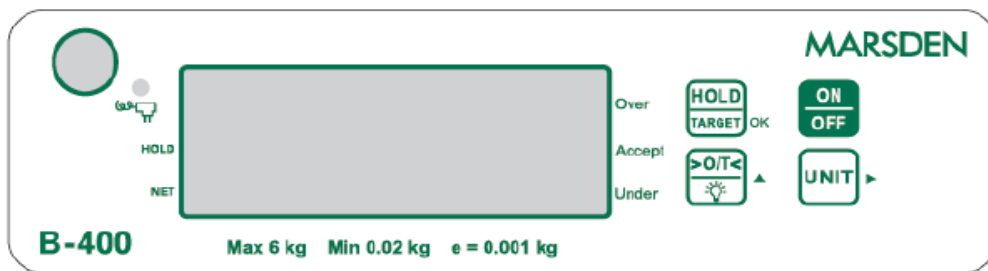
## Maintenance

- The scale does not require any routine maintenance. However, we recommend checking the scale's accuracy at regular intervals. If any inaccuracies occur, please contact your local dealer or service partner.
- You can book an accuracy check with the Marsden Service team on 01709 364296.

# Package Contents

B-400 stainless steel scale  
 AC power adaptor  
 User manual

# Keypad & Display



ICON	Description
	Stability display
	Negative sign
	Zero setting activated
NET	Display net weight
Hold	Display Hold function
	Condition of battery
	Power supply connected Steady green light represents the battery is fully charged.

## LED Indications

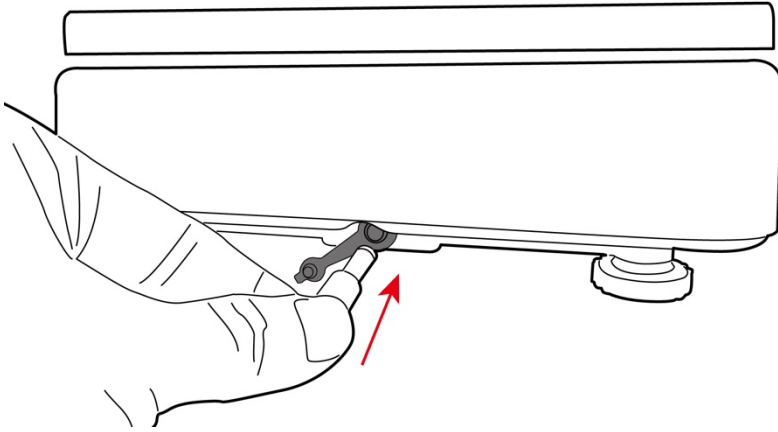
LED status	Description
LED on	Power adapter connected
No LED	Power adapter not connected

## Keypad Description

KEY	DESCRIPTION	FUNCTION
	ON/OFF Switch	Switch the scale on or off
	Unit Switch / ►	Change the weighing units to alternate units of measurement (not available on this model. kg only for OIML type)
	Hold / Target / OK	Select Hold of weight function Setting target weight in check weighing mode
	Tare / Backlight / ▲	Tare off unwanted weight Display backlight

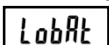
## Mains Power

Connect the plug of the AC adaptor to the AC jack on the bottom of the scale as shown in the illustration below. Connect the AC Adaptor to the AC mains supply. The power outlet should be close to the scale and easily accessible.



## Battery Power

The scale will automatically switch to battery operation if there is a power failure or the power cord is removed to provide uninterrupted scale operation.

**Note:** When low  battery is displayed, the scale will shut off after 30 seconds.

### CAUTION:



Risk of explosion can occur if replaced with the wrong type or connected improperly.

Do not disassemble, repair or otherwise manipulate the battery socket.

Obey the local laws and regulations on disposing the battery.

# Operation

## Turning Scale On/Off

To turn the scale on, press the ON/OFF button. Scale will display **00000** and will then enter active weighing mode.

To turn the scale off, press the ON/OFF button.

## Zero Operation & Setting

With the scale switched on and nothing on the scale, the display should show zero.

If there is nothing on the pan and the display is not zero, press TARE/BACKLIGHT button to set zero.





## Checkweighing Mode

This mode sets low and high weight limits for portion control processes.

<p><b>Enter checkweighing mode</b> Press and hold HOLD/TARGET button to enter checkweighing mode.</p>		
<p><b>Setting target weight values</b></p>		
<p><b>LOWER LIMIT SETTING</b></p>	<p>The first digit is displayed flashing. A triangle appears next to <i>Under</i>. The LCD has no backlight. Repeatedly press TARE/BACKLIGHT until the desired number appears. Press UNIT to accept and move to the next digit. Repeat until all the digits are correct. And press HOLD/TARGET to confirm the setting of lower limit and enter high limit setting.</p>	
<p><b>HIGH LIMIT SETTING</b></p>	<p>The first digit is displayed flashing. A triangle indicator will appear next to <i>Over</i> and the LCD light up in red. Repeatedly press TARE/BACKLIGHT until the desired number appears. Press UNIT to accept and move to the next digit. Repeat until all the digits are correct. Press HOLD/TARGET to confirm setting.</p>	
<p><b>Ready for Checkweighing</b> If required, place an empty container on the pan and press TARE/BACKLIGHT.</p>		
<p><b>Return to Weighing mode</b> Press and hold HOLD/TARGET button to return weighing mode.</p>		

### Checkweighing Annunciators

The OVER, ACCEPT, and UNDER annunciators are to the right of the display and the features as below.

WITHIN TARGET RANGE	The LCD will light up in green and a triangle appears next to <i>Accept</i> , and you will hear two short beeps.	
UNDER TARGET RANGE	The LCD light is off and a triangle appears next to <i>Under</i> and there will be no beep.	
OVER TARGET RANGE	The LCD will light up in red and a triangle appears next to <i>Over</i> , and you will hear continuous short beeps. If the display shows <i>Err</i> , this means weight exceeds overload limit.	 

### SETTINGS

#### Backlight Setting

Press and hold TARE/BACKLIGHT for two seconds to turn ON the backlight manually.  
Press and hold TARE/BACKLIGHT for two seconds to turn OFF the backlight manually.

#### Tare Setting

Place an empty container on the scale and press TARE/BACKLIGHT. The display will show a net value of "0" and triangle will appear next to *NET*.  
To clear the Tare value, press TARE/BACKLIGHT with the pan empty.

#### Auto off Setting

Press and hold UNIT for six seconds, or until the display will show *Set*.  
The display will then show *A\_OFF*. Press TARE/BACKLIGHT to switch the Auto off setting off.  
Press UNIT to scroll through Auto off delay period. Selecting one of these options turns the Auto off delay on. Press TARE/BACKLIGHT once and UNIT twice to confirm the setting. The display should show *End*. Press TARE/BACKLIGHT to return to weighing mode.

#### Buzzer Setting

Press and hold UNIT for six seconds, or until the display will show *Set*.  
The display will then show *A\_OFF*. Press UNIT and the display will show *bUrr*.  
Press TARE/BACKLIGHT to enter this setting, and then press UNIT to toggle this setting on/off.  
Press TARE/BACKLIGHT to exit the setting and UNIT to confirm. The display should show *End*.  
Press TARE/BACKLIGHT to return to weighing mode.









## Troubleshooting

SYMPTOM	POSSIBLE CAUSE	SOLUTION
Scale will not turn on	Battery discharged	Check the battery or adaptor
	Power cable not plugged in properly	Check power cable connection and plugged in properly into the power outlet.
	Other failure	Have the scale serviced by Marsden or an authorised service partner.
Poor accuracy	Unstable environment/surface	Move the scale to a suitable location.
	Improper calibration	Perform calibration.

If the above solutions do not solve your issue, please contact your authorised Marsden service agent for further assistance or Marsden Technical Support on 01709 364296.

# Error Messages

ERROR MESSAGE	DESCRIPTION	REMEDY
	Low battery indication	Connect the power and recharge the battery.
	Counting value is higher than the high limit value	The scale has detected a failure with loadcell or wiring. Have the scale serviced by Marsden or an authorised servicepartner.
	Counting value is lower higher than the low limit value	The scale has detected a problem with loadcell or wiring. Have the scale serviced by Marsden or an authorised servicepartner.
	Zero value is too high when power on	Empty load plate before power up. Recalibrate the scale.
	Zero value is too low when power on	Check if scale is placed correctly. Recalibrate the scale.
	Zero value is too low	Increase the load. If this problem remains unresolved, contact Marsden or an authorised servicepartner.



# MARSDEN

Tel: 01709 364296 / 0800 169 2775

Fax: 01709 364293

E-mail: [sales@marsdengroup.co.uk](mailto:sales@marsdengroup.co.uk)

## Manufacturing and Distribution:

Unit 7, Centurion Business Park,

Coggin Mill Way,

Rotherham,

S60 1FB

## Head Office:

Unit 1, Genesis Business Park,

Sheffield Road,

Rotherham

S60 1DX

[www.marsden-weighing.co.uk](http://www.marsden-weighing.co.uk)