

User Manual

Models: • BL 303

- BL 602
- BL 2002
- BL 3001
- BL 6001
- BL 30K1



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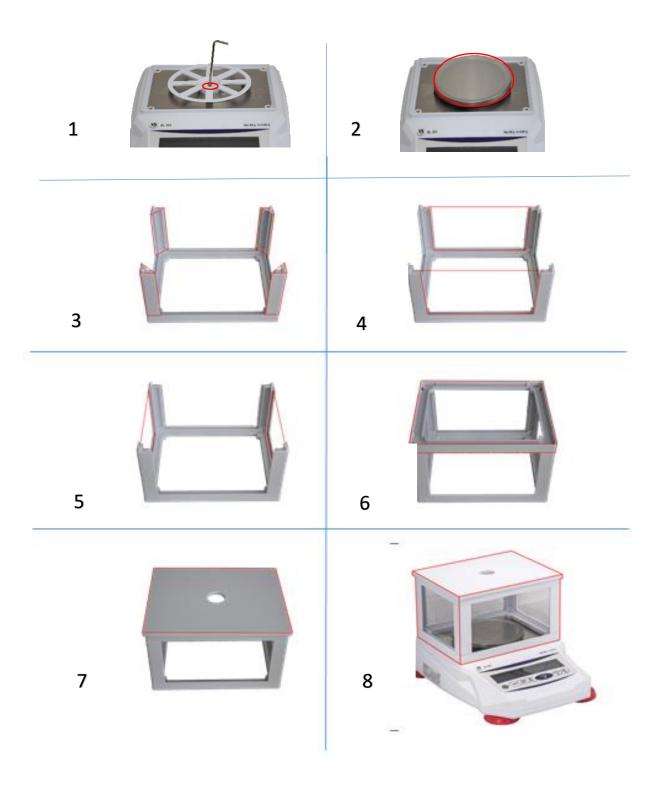
BL 303







BL 602



BL 2002 - BL 3001 - BL 6001



BL 30K 1





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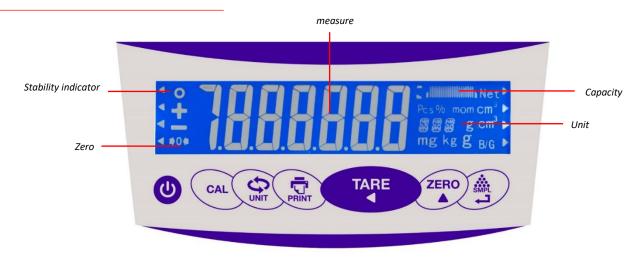


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Installation

- Place the balance and, using the adjustable feet and the bubble on the back, adjust the inclination. The scale MUST be leveled.
- Protect the balance from drafts, so do not install near windows or air conditioners;
- Protect the balance from vibrations;
- Working temperature: 10°C 40°C;
- Working Humidity: 40% 85%.;
- Installation and removal of the scale must be done with the machine switched off;
- Do not use the scale upside down;
- After switch On, wait at least 30 minutes warming up before the first weighing;
- For assistance, contact your dealer or an authorized service center.

Keyboard



(On / Off
CAL	Hold for 3 seconds to start Calibration procedure
Q UNIT	Unit selection
PRINT	Print data (RS 232 printer / PC)
TARE	Tare
ZERO	Zero
	Counter function, set unit in %, ‰, PCS, B/G

Start

Place the scale, and using the bubble on the backside for level It.

Press On / Off to turn on the scale. Following a countdown, marked also by the beep, you will see the software version, the capacity of the scale, and then you enter the measurement mode.

Wait at least 30 minutes to warm up before the first use.

Date and Time settings

Switch on the balance. Keep pressed for 3 seconds for date and time settings menu: "rtc-set". First value requested is the year: the display shows "Year **":

Use the following buttons to modify the blinking value:

- •
- set the value,
- scroll to the next value
- ძ confirm.

Successively are required:

1.	Month	Month
2.	Day	Day
3.	Hour	Hour
4.	Minute	Min

User Calibration

Each balance is calibrated in the laboratory by technicians using certified sample masses.

Provided with all models there is a sample mass useful to test the functionality of the instrument.

Calibration procedure:

- o Turn on the balance and wait at least 30 min. of warmup
- Keep pressed button for 3 seconds,
 the display shows first "Cal 0", "------", and then it shows the sample mass [g] requested for the calibration. *
- o Place the sample mass on the plate.
- O Display first shows "-----", than the weight measurement.

Calibration is complete.

button is possible to change this value, choosing one of the allowed for that model (Tab 1)

Allowed calibration weights [g] for each model

BL 303	100 – 200 - 300
BL 602	200 – 400 - 600
BL 2002	1000 – 2000
BL 3001	1000 – 2000 - 3000
BL 6001	2000 – 4000 - 6000
BL 30K1	10000 – 20000 - 30000

Tab 1

Examples:

If the display shows the blinking value: 2000, put on the plate a certificated sample mass of 2000g.

If the display shows the blinking value: 100, put on the plate a certificated sample mass of 100g.

Unit setting

Unit selection



Press button to select the desired unit.

Default unit settings

Default unit selected is gram [g].

To change the default unit, turn on the balance, and

keep pressed button for 3 seconds. Display shows on the right the unit selected, and On if the unit is enabled, Off if It is disabled.

- to scroll units.
- to switch On/Off

N°	Unit	Symbol	Conversion		
1	grammo	g	1		
2	Carat	ct	0,1999694 g		
3	Avorirdupois Pound	lb	453,59237 g		
4	Avorirdupois Ounce	OZ	28,349523 g		
5	Troy Ounce	ozt	31,103477 g		
6	Avoirdupois Dram	dr	1,7718451 g		
7	Grain	GN	0,0647989 g		
8	Penny weight	dwt	1,5551738 g		
9	Momme	mom	3,749996 g		
10	Hong Kong Jewelry Tael	K.tl	37,429002 g		
11	Taiwan Tael	T.tl	37,49995 g		
12	Hong Kong tael	H.tl	37,799375 g		
13	Singapore tael	S.tl	37,799366 g		
14	Tola	t	11,663804 g		
15	Mesghai	М	4,6083162 g		
16	Tical	cl	16,3293 g		
17	Kilogram	Kg	1000 g		
18	British Gravitational System	B/G			
19		PCS			
20		%			
21		‰			

Setting Off, that Unit will not be selectable in the measurment mode.

To choose a new default unit, scroll the units and when is reached the desired one, press

Zero

With no weight on the scales, press the button to take the 0.00 reading on the display. The ZERO function is only effective if the value shown is less than 4% of total capacity. If the value is greater than 4%, the load is regarded as a tare.

Tare

After placing the tare on the scales, press the button to reset the value displayed to 0.00. The load used for Tara has to be subtracted by the overall capacity weighing.

Measure

Place the sample on the plate.

Wait for the stable indicator on the left of the display before taking the measurement.

Counter Function

Set one of these units: PCS, % or %, and press button

Display shows "S - 5": 5 is the number of required pieces for the sampling, or the % to associate with the reference sample. With the \triangle button, select the desired value between these: 5, 10,50, 100, 500 e 1000. Place samples on the plate and press \longrightarrow button.

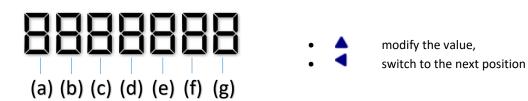
Now It is ready for count all your samples.

RS-232 Settings

Connect the Rs-232 printe on the backside of the scale.

Keep pressed button for 3 seconds, the display shows first "rS—Set", **8888888**...

According with the following table, set the correct values:



а	0 = 9600	1 = 19200			
b	0 = print in continuos	1= print when stable	2= press to print		
С	0=	1= print the date			
d	0=	1= print the item *			
е	0 = PC Mode	1 = special paper	2= continuos paper	3 = micro-printer	
f	0				
g	0				

Confirm with CAL button.

Item settings

Is possible to set an "Item", that will be printed with the other values, for example the serial number. To do that, keep

pressed button for 3 seconds. Display shows first "ItemSet", than "1234567". Modify the string using following key:

•

set the value,

confirm.

switch to next value

•

Battery

The scales mount a rechargeable battery.

To recharge the battery use the power supply included in the packaging, and plug it into the jack on the backside of the balance.

Is possible to use always the balance with the power supply connected.

Troubleshooting:

Description		Solution		
		Connect the power supply.		
Does not turn on	No power	Verify the power supply status and		
		connection.		
Reading error.	Wrong calibration.	Recalibrate the scale.		
Does not calibrate.	Wrong work conditions.	Look for the right work conditions		
Does not cambrate.	Wrong work conditions.	(pag3).		
It switch off	Low batteries	Connect the power supply		
		Check the sample.		
	Sample is heavier than the capacity	Check if the plate interferes with the		
"Over"	supported.	safety screws present above and		
	συρροιτεά.	below the instrument, in		
		correspondence of the load cell.		

Datasheets

Models	BL 303	BL 602	BL 2002	BL 3001	BL 6001	BL 30K1
Cod	27000513	27000323	27000313	27000113	27000123	27000133
Capacity	300 g	600 g	2000 g	3000 g	6000 g	30 000 g
Division	0,001 g	0,01 g	0,01 g	0,1 g	0,1 g	0,1 g
Repeatability	0,001 g	0,01 g	0,01 g	0,1 g	0,1 g	0,2 g
Linearity	± 0,003	± 0,03	± 0,02	± 0,2	± 0, 2	± 0, 2
Min weight	0.02g	0.2g	0.2g	2g	2g	10 g
Sensor	Strain gage	Strain gage	Strain gage	Strain gage	Strain gage	Strain gage
Calibration	External	External	External	External	External	External
Pan size	Ø 118	Ø 118	188 x 148	188 x 148	188 x 148	330*260*80
Dimensions (L*I*H)	292 x 218 x 227	292 x 218 x 227	292 x 218 x 80	292 x 218 x 80	292 x 218 x 80	330*260*83
Weight	3,1 Kg	3,1 Kg	2,8 Kg	2,8 Kg	2,8 Kg	6 Kg
Units	Yes	Yes	Yes	Yes	Yes	Yes
%	Yes	Yes	Yes	Yes	Yes	Yes
RS 232	Yes	Yes	Yes	Yes	Yes	Yes
PCS Counter	Yes	Yes	Yes	Yes	Yes	Yes
Rechargeable batteries	Yes	Yes	Yes	Yes	Yes	Yes
Dust cover	Optional	Optional	Yes	Yes	Yes	No

Disposal of electronic devices



The electrical and electronic equipment marked with this symbol cannot be disposed of in public landfills. According to the UE Directive 2002/96/EC, the European users of electrical and electronic equipment can return it to the dealer or manufacturer upon purchase of a new one.

The illegal disposal of electrical and electronic equipment is punished with an administrative fine.