

Microbalance

Mu series

• Introduction

BEL Engineering introduces the new micro balance series "Mu" with 0,001mg resolution. Equipped with 5 inch color touch screen display that brings outstanding ease of use thanks to the intuitive interface and the innovative wide double glass wind-shield that allows the user to weigh the samples with comfort. Advanced and efficient filtering algorithms to deliver quick and accurate results and many embedded functions to meet all the laboratory requirements. Mu series is optimal for filters weighing, standards preparation etc...

• Key Features



Selectable measuring units



Check weighing



Cumulative weighing



Density determination



Date and time



Parts counting



Percent weighing



Statistical calculation



Peak hold



GLP settings



Multi language



Formulation



Pipette calibration



user access control



Database to store data



5 inch touch screen



USB host



RS232 serial interface

• Overview

- Max capacity 12,1 g with resolution 0,001 mg
- 5 inch touch screen indicator that makes easy the operation and the navigation through the balance functions
- Double wind shield for enhanced ventilation and temperature variation protection
- Bench ioniser included with the balance to eliminate static charges
- Automatic internal calibration
- Wide range of embedded functions such as formulation, statistical calculation etc... with 9 languages interface

• Double wind shield

This series mounts by standard a double round glass windshield giving advantages comparing to others similar product in the market. The double glass brings an enhanced protection to external temperature variation and ventilation.

Moreover the windshield is built with a metal evaporated metal coating to help to reduce at minimum static charges.

By rotating the two windshields the user can adjust the dimension of the opening to accommodate bigger samples and making more comfortable the access to the weighing plate.

The windshield is very easy to disassemble and can be cleaned in few minutes if necessary.



Double wind shield



Easy disassembling

• Bench ioniser

The microbalance comes standard with a ioniser (model ION-A15).

Static charges accumulate in many kind of samples that are being weighed during the laboratory routine. By blowing ions, this portable Ionizer neutralizes static electricity on charged samples like plastic parts, containers or films. Within seconds the sample is ready to be weighted free from static charges giving the operator accurate results. The ioniser is a fundamental instrument to use together with the microbalance.



• Wide range of application

The microbalance comes standard with a wide number of embedded functions such as formulation, statistics, piece counting, pipette calibration etc...

The balance is GLP compliant, the user can input all the data required for projects such as date, ID etc..

Users can access to the balance interface with their user-name and password and recall their own profile.

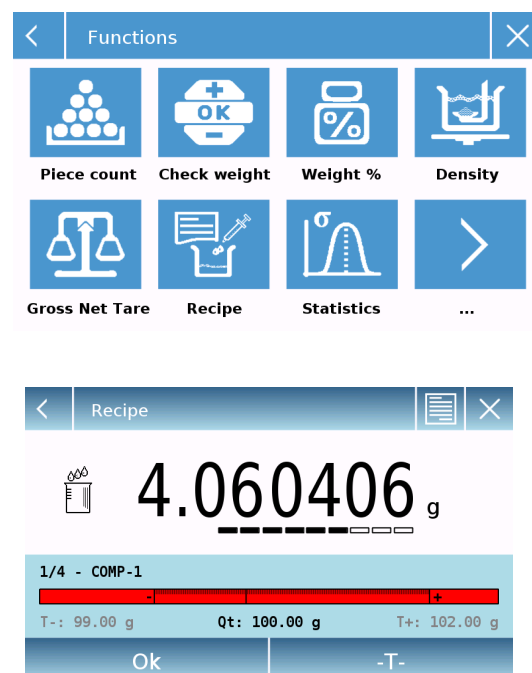
The internal database allows to store and recall the data and results while using the functions. Different user can recall and store their own data. Up to 150 samples and 300 recipes can be stored in the balance.

• Automatic internal calibration

The balance can be set to automatic calibrate itself using its internal calibration weight. An interval of time can be set or the balance will automatic start the calibration when feels a change on the environmental temperature.

• Accessories

Anti-vibration granite slab.....	BL0618
Anti-vibration table model TAV.....	BL0659
Anti-vibration table model TAV PLUS.....	BL0660
Bench windshield model WS.....	BL0660
Impact dot matrix Serial Printer TX-110, ISO/GLP compliant.....	AC030
Thermal Serial Printer TLP-50, with date/time.....	C054
Serial to USB converter.....	E1002
Serial cable for serial output to printer or PC.....	E743
i-Weight Software kit for data collection and analysis.....	BL0476
Factory Calibration certificate.....	BL0333



• Technical specifications

Model	Mu 26i	Mu 66i	Mu 126i
Capacity [Max]	2,1 g	6,1 g	12,1 g
Readability [d]	0,001 mg	0,001 mg	0,001 mg
Tare Range	- 2,1 g	- 6,1 g	- 12,1 g
Minimum load according to Directive 2014/31/EU	0,1 mg	0,1 mg	0,1 mg
Repeatability*	0,002 mg [weight 1g] 0,003 mg [weight 2g]	0,002 mg [weight 2g] 0,003 mg [weight 5g]	0,003 mg [weight 2g] 0,004 mg [weight 5g]
Repeatability* typical	0,001 mg [weight 1g] 0,002 mg [weight 2g]	0,001 mg [weight 2g] 0,002 mg [weight 5g]	0,002 mg [weight 2g] 0,003 mg [weight 5g]
Minimum weight (USP, United States Pharmacopeia, Cap.41)	4 mg	4 mg	6 mg
Minimum weight, typical (USP, United States Pharmacopeia, Cap.41)	2 mg	2 mg	4 mg
Linearity Deviation, typical	± 0,01 mg	± 0,01 mg	± 0,01 mg
Eccentric Deviation, Typical (Test weight)	0,01 mg [weight 1g]	0,01 mg [weight 2g]	0,01 mg [weight 5g]
Stabilization Time	≤ 8 s	≤ 8 s	≤ 8 s
Adjustment	Automatic internal		
Typical Sensitivity Offset	± 2ppm/°C		
Display	5 inch color touch screen		
Operating languages	Italian, English, Portuguese, Deutsch, Francaise, Español, Russian, Chinese, Russian		
Interface	RS232, USB host		
Pan Size	30 mm		
Operating Environment	+15 °C - +30 °C , 45-65% Relative Humidity (non condensing)		
Environment operating temperature variation rate	± 0,5 °C/h		
Environment relative humidity variation rate	± 2%/h		
Power Supply (balance)	110-230Vac, 50/60Hz; output 24V 1A multi plug		
Power Supply (ioniser)	110-230Vac, 50/60Hz; output 12V 1A multi plug		
Standard Accessories	Bench ioniser, E2 class weight, tweezer		
Dimensions	480(D) x 165(W) x 205(H) mm		
Wind Shield internal diameter	165 mm		
Distance pan/top wind shield	75 mm		
Indicator dimension	173(D) x 180(W) x 92(H) mm		

Repeatability is expressed as a standard deviation from 10 weighing cycles.

Stabilization time depends on the external environment conditions.

Others characteristics:

- Weighing Units: Gram, Milligram, Carat, Ounce, Pound, Pennyweight, Troy Ounce, Grain, Hong Kong Teal, Singapore Teal, Taiwan Teal, Momme , custom units
- On-board functions: Piece counting, Check weighing, Percentage weighing, Statistics, Peak hold, Density determination, Accumulation, Formulation, Pipette Check
- Multi-user with password protection, Multi-language
- GLP compliant
- Internal Database to store user data and results
- USB port to import/export data
- RS232 serial interface