

# Аналитические весы ТВ-800-62, LB-200, LB-400, микровесы ультрамикровесы, полумикровесы с сенсорным экраном МА-Т

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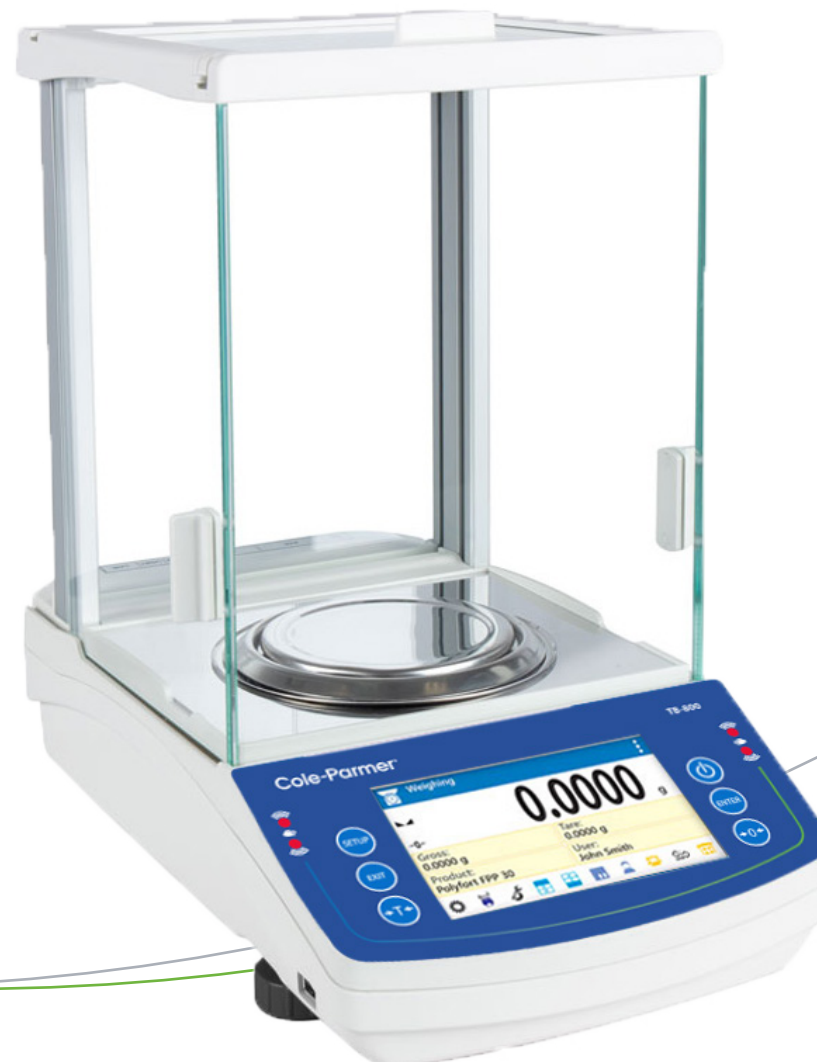
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# Cole-Parmer®

## Cole-Parmer® TB-800 Series Analytical Balances

- Five-year industry-leading warranty
- Internal & External calibration options
- Readability as precise as 0.01 mg
- Touch Screen Display



# Cole-Parmer® TB-800 Series Analytical Balances

The TB-800 series of balances combines state of the art features, an intuitive touchscreen display, premium build quality, and Cole-Parmer's industry leading five-year warranty into an economical package that is an essential addition to any laboratory.

Internal or External Calibration, onboard database storage and processing, infrared sensors for hands-free operation, and unparalleled connectivity in the form of RS232, USB-A, USB-B and Wi-Fi make the TB-800 Series Analytical Balances the perfect choice for all your weighing needs.



## Ordering Information (Internal Calibration)

Description	Ordering No.	Series No.	Model No.
82/220g 0.01mg/0.1mg Analytical Balance with Touchscreen	EW-10102-00	TB-800-i	TB-800-82/220i
160g 0.1mg Analytical Balance with Touchscreen	EW-10102-01	TB-800-i	TB-800-160i
220g 0.1mg Analytical Balance with Touchscreen	EW-10102-02	TB-800-i	TB-800-220i
310g 0.1mg Analytical Balance with Touchscreen	EW-10102-03	TB-800-i	TB-800-310i

## Ordering Information (External Calibration)

Description	Ordering No.	Series No.	Model No.
60g 0.1mg Analytical Balance with Touchscreen	EW-10102-11	TB-800	TB-800-62
160g 0.1mg Analytical Balance with Touchscreen	EW-10102-12	TB-800	TB-800-160
220g 0.1mg Analytical Balance with Touchscreen	EW-10102-13	TB-800	LB-400-220
310g 0.1mg Analytical Balance with Touchscreen	EW-10102-14	TB-800	LB-400-310

## Technical Specification (Internal Calibration)

Specification	TB-800-82/220i	TB-800-160i	TB-800-220i	TB-800-310i
<b>Max Capacity</b>	82 g/220 g	160 g	220 g	310 g
<b>Readability</b>	0.01 mg / 0.1 mg	0.1 mg	0.1 mg	0.1 mg
<b>Calibration Type</b>	Internal	Internal	Internal	Internal
<b>Linearity</b>	±0.05/0.2 mg	±0.2 mg	±0.2 mg	±0.2 mg
<b>Repeatability</b>	0.08 mg	0.08 mg	0.08 mg	0.12 mg
<b>Stabilization Time</b>	3 s	2 s	2 s	2.5 s
<b>Weigh Pan Dimensions</b>	ø90 mm	ø100 mm	ø100 mm	ø100 mm
<b>Device Dimensions</b>	351x205.5x338 mm			
<b>Connectivity</b>	2×RS232, 2×USB-A (Interchangeable), USB-B, Wi-Fi			

## Technical Specification (External Calibration)

Specification	TB-800-62	TB-800-160	TB-800-220	TB-800-310
<b>Max Capacity</b>	60 g	160 g	220 g	310 g
<b>Readability</b>	0.1 mg	0.1 mg	0.1 mg	0.1 mg
<b>Calibration Type</b>	External	External	External	External
<b>Linearity</b>	±0.2 mg	±0.2 mg	±0.2 mg	±0.2 mg
<b>Repeatability</b>	0.08 mg	0.08 mg	0.08 mg	0.12 mg
<b>Stabilization Time</b>	2 s	2 s	2 s	2.5 s
<b>Weigh Pan Dimensions</b>	ø90 mm	ø100 mm	ø100 mm	ø100 mm
<b>Device Dimensions</b>	351x205.5x338 mm			
<b>Connectivity</b>	2×RS232, 2×USB-A (Interchangeable), USB-B			

# Cole-Parmer® Symmetry® Touch-Screen Ultra-Micro and Micro Balances

## Even faster weighing at your fingertips

- Faster measurements and shorter stabilization time retaining high repeatability values
- Highest possible accuracy and repeatability with  $sd < 1d$  combined with USP regulations conformity
- Color resistive touch-screen display lets you customize parameters to match your needs
- Go touchless and minimize cross-contamination—two programmable IR proximity sensors offer programmable touch-free balance control
- Motorized draft-shield doors† offer easy access to weighing pan
- Additional deionizer module in weighing chamber facilitates automatic detection and elimination of electrostatic effects
- 8 GB RAM—record complex reports or obtain time and statistic data diagrams on series of measurements
- USB, RS-232, Ethernet, and Wi-Fi interfaces
- Software features several databases; only authorized users can add/delete records and export/import/save data
- Safe to operate in laminar airflow cabinets and fume hoods

UMA-T Ultra-micro balance

MA-T micro balance

INDUSTRY-LEADING  
**3-year warranty**

Cole-Parmer Symmetry touch-screen ultra-micro (UMA-T) and micro (MA-T) balances set a new standard for measurement quality. Accuracy and precision are at your fingertips with these state-of-the-art balances. To ensure the highest weighing accuracy, the balances have an internal automatic adjustment and an external adjustment. Built-in warning system visually and audibly alert when valid measuring results are at risk and need adjustments. All balances carry an industry-leading 3-year warranty.

†Excludes model 10100-26.

## Specifications

**Calibration:** internal and external with calibration mass

**Weighing units:** g, mg, kg, ct, lb, oz, ozt, dwt, tlh, tls, tlt, mom, gr, N, ti

**Stability indicator:** yes

**Outputs:** RS-232 (2), USB, Ethernet, Wi-Fi

**Housing size (W x H x D):** 6<sup>7</sup>/<sub>16</sub>" x 7<sup>1</sup>/<sub>4</sub>" x 16<sup>3</sup>/<sub>16</sub>"  
(16.3 x 18.3 x 41.1 cm)

**Power:** 100 to 240 VAC (universal power adapter included)

### Additional Options

- Option available for pipette calibration (for model 10100-28)
- Optional wireless keypad makes it safe to use balance in different locations
- Optional ambient conditions module provides temperature, humidity and atmospheric pressure measurements



UMA-T Ultra-micro balance

MA-T Micro balance

**What's included:** motorized draft shield, AC adapter, and power cord.

Series	Description	Capacity	Readability	Repeatability	Linearity	Pan size (dia)	Catalog number
UMA-T	Ultra-micro balance	2.1 g	0.1 µg	±0.1 µg	±1.5 µg	5/8" (1.6 cm)	<a href="#">ML-10100-23</a>
MA-T	Micro balance	2.1 g	1 µg	±1 µg	±3 µg	5/8" (1.6 cm)	<a href="#">ML-10100-24</a>
	Micro balance	5.1 g	1 µg	±1 µg	±5 µg	1 <sup>1</sup> / <sub>32</sub> " (2.6 cm)	<a href="#">ML-10100-25</a>
	Micro balance for filters	5.1 g	1 µg	±1 µg	±5 µg	3 <sup>15</sup> / <sub>16</sub> " (10 cm)	<a href="#">ML-10100-26</a>
	Micro balance	11 g	1 µg	±1 µg	±6 µg	1 <sup>1</sup> / <sub>32</sub> " (2.6 cm)	<a href="#">ML-10100-27</a>
	Micro balance	21 g	1 µg	±1 µg	±7 µg	1 <sup>1</sup> / <sub>32</sub> " (2.6 cm)	<a href="#">ML-10100-28</a>
	Micro balance for pipettes	21 g	1 µg	±1 µg	±7 µg	1 <sup>1</sup> / <sub>32</sub> " (2.6 cm)	<a href="#">ML-10100-29</a>

### Accessories

[ML-10100-83](#) Cable, RS-232 to USB

[ML-10100-84](#) Cable, RS-232 to printer

[ML-10100-85](#) Printer

[ML-10100-86](#) Printer paper

[ML-10100-94](#) Adapter for pipette calibration using micro balance 10100-28

[ML-10100-95](#) Optional wireless keypad, battery operated

[ML-10100-96](#) Pipette calibration PC software supports calibration of fixed- or adjustable-volume pipettes. For models 10100-28 and -29

[ML-10100-97](#) Ambient conditions module for measuring temperature, humidity, and atmospheric pressure

[ML-17101-52](#) NIST-traceable calibration with data for balances

# Cole-Parmer® LB-400 Series Analytical Balances



- COLE-PARMER

Quality and precision at an economical price




- Five-year industry-leading warranty
- = 3 seconds stabilization time
- 0.01mg and 0.1mg four-place readability
- Easily adjustable filter settings
- Internal and external calibration options
- Large, backlit LCD for improved visibility of weighing results
- USB, RS-232, and Wi-Fi† interfaces
- Multiple working modes handle a variety of weighing functions
- Spacious weighing chamber allows for tool-free disassembly and assembly
- Anti-static coating on weighing chamber panes




The LB-400 analytical balances provide accurate measurements of weighed loads up to a maximum of 62g to 320g. A spacious three-door glass draft shield ensures weighing is as precise as possible, protecting the balance from external factors such as dust and drafts that could affect measurement accuracy. Internal and external calibration options allow you to choose the calibration method that best suits your specific needs, ensuring the balances remain accurate over time.

The large backlit LCD display provides clear and easy-to-read weighing results which is helpful in sub-optimal lighting conditions. The balances come equipped with a filter level setting that is easily adjusted to either a fast or slow mode, allowing you to tailor the balance's response to the working environment.



Quick access keys, balance taring, balance zeroing, auto switch-off, and backlight turn-off time are all incorporated into the design to enhance user-friendliness. Record important information such as users, products, weighings, and tares to simplify data management and retrieval, aiding in keeping track of measurement history and relevant details.

†Only models with internal calibration feature Wi-Fi interface.

Compareitem	Calibration Type	Capacity (g)	Description
 <p data-bbox="261 253 432 286">EW-10102-23</p> <p data-bbox="124 421 140 443">--</p>	Internal	220	Analytical Balance with LCD, 82g/220g x 0.01mg/0.1mg, Internal Calibration
 <p data-bbox="261 768 432 801">EW-10102-24</p> <p data-bbox="124 936 140 958">--</p>	Internal	160	Analytical Balance with LCD, 160g x 0.1mg, Internal Calibration
 <p data-bbox="261 1283 432 1317">EW-10102-25</p> <p data-bbox="124 1451 140 1473">--</p>	Internal	220	Analytical Balance with LCD, 220g x 0.1mg, Internal Calibration

Compareitem	Calibration Type	Capacity (g)	Description
 EW-10102-26 --	Internal	310	Analytical Balance with LCD, 310g x 0.1mg, Internal Calibration
 EW-10102-33 --	External	62	Analytical Balance with LCD, 62g x 0.1mg, External Calibration
 EW-10102-34 --	External	160	Analytical Balance with LCD, 160g x 0.1mg, External Calibration



Compareitem	Calibration Type	Capacity (g)	Description
 <p data-bbox="263 253 432 286">EW-10102-35</p> <p data-bbox="124 421 140 443">—</p>	External	220	Analytical Balance with LCD, 220g x 0.1mg, External Calibration; 100/240 VAC
 <p data-bbox="263 772 432 806">EW-10102-36</p> <p data-bbox="124 940 140 963">—</p>	External	310	Analytical Balance with LCD, 310g x 0.1mg, External Calibration

# Cole-Parmer® LB-200 Analytical Balances



## COLE-PARMER

Performance and style for an impressive weighing experience

- Selectable digital filtering for dynamic weighing enables consistent results for moving subjects
- Printouts include date and time for data tracking within Good Laboratory Practices (GLP) guidelines
- Sealed keypad protects against dirt and spills
- Hold function freezes the displayed weight ensuring results are kept safe
- Parts counting with preset sample sizes
- Auto power-off to save energy

Designed to deliver improved performance, the LB-200 Analytical Balances enable faster and more accurate readings, saving valuable time while maintaining precision in measurements. Backlighting ensures you can easily read measurement results in all lighting conditions to eliminate potential sources of error due to poor visibility. Multilingual support makes it adaptable for use in various regions.




Color-coded navigation buttons allow you perform functions with minimal training. USB and RS-232 interfaces facilitate seamless data collection and transmission to computers or printers.


Performance and style for an impressive weighing experience

- Selectable digital filtering for dynamic weighing enables consistent results for moving subjects
- Printouts include date and time for data tracking within Good Laboratory Practices (GLP) guidelines
- Sealed keypad protects against dirt and spills
- Hold function freezes the displayed weight ensuring results are kept safe
- Parts counting with preset sample sizes
- Auto power-off to save energy

Designed to deliver improved performance, the LB-200 Analytical Balances enable faster and more accurate readings, saving valuable time while maintaining precision in measurements. Backlighting ensures you can easily read measurement results in all lighting conditions to eliminate potential sources of error due to poor visibility. Multilingual support makes it adaptable for use in various regions.

Color-coded navigation buttons allow you perform functions with minimal training. USB and RS-232 interfaces facilitate seamless data collection and transmission to computers or printers.

Compareitem	Calibration Type	Capacity (g)	Readability (g)
 EW-55000-01 <small>COMPARE</small>	External calibration	120	0.0001
 EW-55000-02 <small>COMPARE</small>	External calibration	220	0.0001
 EW-55000-03 <small>COMPARE</small>	Internal automatic calibration / External calibration	120	0.0001

Compareitem	Calibration Type	Capacity (g)	Readability (g)
 EW-55000-04  <small>COMPARE</small>	Internal automatic calibration / External calibration	220	0.0001

# Cole-Parmer® LB-400 Series Precision Toploading NTEP-Approved Balances



- COLE-PARMER

Compliance and precision at an economical price

- Designed and engineered to meet stringent NTEP requirements for use in legal applications such as pharmacies, jewelry stores, and retail outlets
- Large, backlit LCD provides clear visibility of weighing results
- Automatic and manual internal calibration options
- Removable draft shield on milligram (0.001g) readability options
- USB, RS-232, Ethernet, and Wi-Fi interfaces
- Easily adjust filter settings to suit the working environment
- Multiple working modes handle a variety of weighing functions
- Five-year industry-leading warranty





The Cole-Parmer LT series precision toploading balances provide advanced weighing features at an economical price. The large, stainless steel weigh pan allows for easy weighing of large items. Easy to operate, the balances can be automatically or manually calibrated internally. The large, backlit LCD allows a clear presentation of the weighing results.

To achieve the best possible weighing conditions, the balances feature a filter level setting that can be adjusted to a fast or slow mode depending on the working environment. Other features include quick access keys, balance taring, balance zeroing, auto switch-off, and backlight turn-off time.

The balance features several databases for recording users, products, weighings, and tares. Only users with appropriate access can adjust balance settings, export data, import data, and delete records. Two USB, two RS-232 interfaces, Ethernet, and Wi-Fi interfaces.

These NTEP-approved balances are tested and evaluated to ensure they meet all government standards and requirements set by the National Institute of Standards and Technology (NIST). Each model features a “d” and “e” value. The “d” value is defined in NIST Handbook 44 as the scale division, value of (d) and is the smallest division a balance can display. The “e” value is known as the verification scale division, value

of (e). It represents the stated accuracy and is utilized as the value for commercial transactions. Refer to your state guidelines on “d” vs “e” value acceptance.

Compare item	Capacity (g)	Readability (g)	Description
 EW-10402-47 <small>COMPARE</small>	360	0.001	Precision Toploading Balance with LCD, d=0.001g, e=0.01g (see text for details)
 EW-10402-48 <small>COMPARE</small>	1000	0.001	Precision Toploading Balance with LCD, d=0.001g, e=0.01g (see text for details)
 EW-10402-49 <small>COMPARE</small>	2100	0.01	Precision Toploading Balance with LCD, d=0.01g, e=0.1g (see text for details)
 EW-10402-50 <small>COMPARE</small>	4500	0.01	Precision Toploading Balance with LCD, d=0.01g, e=0.1g (see text for details)

# Cole-Parmer® TB-800 Series Touch-Screen Analytical Balances






Weighing surface allows for precise weighing of small items




- Five-year industry-leading warranty
- 0.01 mg and 0.1 mg four place readability
- IR proximity touchless sensors offer touch-free balance control
- Touch-screen display provides clear visibility of weighing results
- USB, RS-232, Ethernet, and Wi-Fi interfaces offer secure data connections
- Autotest GLP function quickly diagnoses weighing errors
- Adjustable filter settings help optimize performance depending on the working environment
- Customize the menu screen to match your everyday needs
- Statistics working mode quickly analyzes data from series of measurements
- Display menu descriptions in multiple languages
- Fast stabilization and response time
- Spacious weighing chamber allows for tool-free disassembly and assembly
- Anti-static coating on weighing chamber panes

The Cole-Parmer series of analytical balances feature a removable glass draft shield with three doors for easy cleanup and access to the weighing pan. The balances are calibrated either internally or externally using a calibration mass. The 4-1/4" x 2-1/2" color capacitive touch-screen display features a status bar, weighing result window, editable information fields, and editable tool bar. The area beneath weight indication display can be customized to meet your personal programming needs. Two built-in infrared (IR) proximity sensors can be programmed with different functions for each working mode enabling touch-free balance control, while minimizing cross-contamination. Working modes include weighing, parts counting, check weighing, dosing, percent weighing, density of solids, density of liquids, animal weighing, statistics, peak hold, and formulations. Other features include adjustable filter level settings, quick-access keys, balance taring, balance zeroing, auto switch-off, and backlight turn-off time. The balances feature several databases for recording products, users, packaging, customers, formulations, formulation reports, ambient conditions, and weighing. Only users with appropriate access can add new records, export data, import data, delete records, and print saved data. RS-232, 2xUSB-A (interchangeable), USB-B, Ethernet, and Wi-Fi offer external connection to a computer or printer for GLP/GMP-compliant output. The autotest GLP

function provides an enhanced balance summary to aid in assessing operation and diagnosing reasons for occurrence of errors in weighing.

Compare item	Calibration Type	Capacity (g)	Readability (mg)
 <p>EW-10102-01</p> <p><small>COMPARE</small></p>	Internal	160	0.1
 <p>EW-10102-02</p> <p><small>COMPARE</small></p>	Internal	220	0.1
 <p>EW-10102-03</p> <p><small>COMPARE</small></p>	Internal	310	0.1



Compareitem	Calibration Type	Capacity (g)	Readability (mg)
 <p data-bbox="264 253 448 282">EW-10102-11</p> <p data-bbox="124 421 153 432"><small>COMPARE</small></p>	External	62	0.1
 <p data-bbox="264 772 448 801">EW-10102-12</p> <p data-bbox="124 940 153 952"><small>COMPARE</small></p>	External	160	0.1
 <p data-bbox="264 1292 448 1321">EW-10102-13</p> <p data-bbox="124 1460 153 1471"><small>COMPARE</small></p>	External	220	0.1

**Compareitem**

EW-10102-14

COMPARE

**Calibration Type**

External

**Capacity (g)**

310

**Readability (mg)**

0.1

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