



aczel[®]

Laboratory Balances & Scales

Solution Simplified



Microbalance CM Series

The first choice for measuring the smallest sample quantity

www.aczel.com

Microbalances First choices for the measuring smallest sample quantity.

CM Series

Microbalance is the first choice for measuring the smallest sample quantity. Excellent performance in challenging conditions, the best operating temperature range, and resistance to external conditions minimize the environmental influence on the operation of the balance. A weighing instrument with a wide range of capacities from 2g up to 31g and a readability of 1 μ g (microgram) offers exceptional precision and versatility for weighing applications that require highly accurate measurements.



Excellent Weighing Performance the Microbalance, with its two-terminal concept, offers excellent weighing performance by separating the electronics from the precise mechanical measuring cell. This design helps eliminate the effects of temperature and its influence on the balance's performance.

10 Easy-to-use Built-in-Applications

Piece Counting 123

% Weighing 100

Custom Unit $\frac{g}{kg}$ $\frac{mg}{mg}$

Animal Weighing

Check Weighing

Formulation

Totalization $\sum n$

Density

Statistics

Pipette Check

Reliable and precise results



The Mono-Tech technology sensor truly stands out with its unparalleled design based on electromagnetic force compensation (EMFC). Its exceptional performance meets the highest international standards. I am truly impressed by its unique features and the results it delivers.

Strong and Sturdy Construction



Ensures reliability and durability with its strong construction and solid performance, perfect for long-term use.

Easy-to-Read LCD Screen



The balance is equipped with a large LCD backlit screen that ensures easy visibility in any lighting conditions. The backlit feature illuminates the screen, making it readable even in low-light environments.

Efficient Functioning



Touch Free Draft Shield To ensure a touch-free and convenient experience, the display terminal comes equipped with infrared sensors that allow for instant access with just a wave of your hand. This feature makes opening and closing the draft shield easy and safe.

Easy Leveling



Simply adjust the feet of the balance until the level indicator shows that the air bubble is centered. This ensures accurate measurements.

Efficient Communication



- Standard RS232 and USB B interface
- Windows direct communication to MS-Excel or any other windows applications.

Microbalances First choices for the measuring smallest sample quantity.

CM Series

Revolution in Mass Measurement Quantity

Our Microbalance sets a new benchmark for mass measurement quality with the best weighing accuracy and $sd \leq 1d$ repeatability. We adhere to strict USP requirements (chapters 41 and 1251) to ensure the highest level of quality in our measurements.

Monitored Ambient Conditions

A unique ambient conditions monitoring feature is applied to supervise environmental conditions at the balance workplace.

Overload Protection

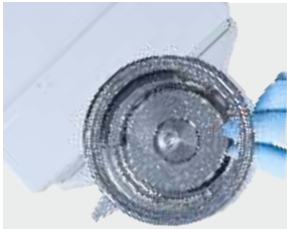
Monitor the built-in display for capacity tracking to prevent overloading weighing cell.

Internal Calibration CM Series

Motorized built-in weight internal calibration ensures precise weighing performance in any condition.

Environmental influence CM Series

The PSAC Cal. function ensures accurate measurements in any condition. It performs automatic internal calibration based on time or temperature changes to maintain precision.



Effortless Cleaning

It is not just small footprint but newly design draft shield provides easy access to weighing pan. All weighing chamber parts can be removed without need of specific tool cleaned and replace back in couple of simple steps.



15 Significant Features

- Mono-Tech EMFC
- Internal Cal
- PSAC Cal
- External Cal
- GLP/GMP
- Auto Off
- Capacity Tracker
- Over Load Prot.
- IP 54
- Windows Comm.
- Connectivity
- Date & Time
- Levelling
- Anti-Thief lock
- Protective Cover

GLP Documentation



Balance includes a built-in GLP Documentation feature for easy input of essential information. Ensures compliance with GMP/GLP/ISO regulations, data directly associate to a printer.

Anti-Static Solution



Enhance Accuracy with Anti-Static Solution.

CI - 01 Ionizer : Eliminate Static Charges for Reliable Results.

Efficient Operation



Superior weighing performance with Non-Magnetic Stainless Steel Pan.

Electrostatic-Proof Glass Draft Shield : Accurate weighing result.

IP 54 Protection : Safeguarded Against Dust and Water Splashes.

Application Industries

Food



Pharma



Chemical



Cosmetic



Polymer



Cement



Testing Lab



Microbalance Series	CM 2	CM 5	CM 11
Maximum Capacity	2 g	5 g	11 g
Readability	1 mg	1 mg	1 mg
Repeatability (±)	1 mg	1 mg	1.2 mg
Linearity (±)	3 mg	6 mg	6 mg
Tare Range (Subtractive)	-2 g	-5 g	-11 g
Minimum Weight USP	1 mg	2.4 mg	
Minimum weight ((U=1%, k=2)	0.1 mg	0.24 mg	
Pan Size (mm)	30 Ø		
Response Time	8 - 10 Sec.		
Display	Alpha Numeric Backlit LCD Display		
Calibration	Motorised Internal Calibration		
Units of measure	gm, mg, ct, GN, mo, oz, dwt, t1T, t1H, t1S, mom, Bat, MS		
Operating Temp.	18° to 30°C		
Sensitivity Drift.	± 1ppm (1 x 10 ⁻⁶ / °C)		
Relative humidity	40% ÷ 80%		
Interface	RS 232C Optional USB (Windows direct communication).		
Application Modes	PCS, % Weighing, Animal / Dynamic Weighing, Check Weighing, Automatic Density Determination, Formulation Automatic Statistic Calculator etc.		
Power Supply	DC Adapter, input 100 ~ 240 0.8A output 13V / 15.A, 50-60Hz		
Compliance	ISO, GLP / GMP & USP		
Balance Size (W x D X H)	Mechanical Box : 360 x 140 x 146 mm / Electronic Box : 342.5 x 212 x 89.5		
Weight Approx	20 kg		

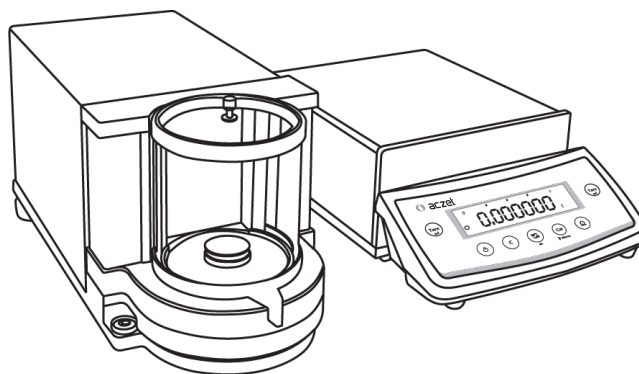
Accessories

Data Printer - CPR 02 Dot Matrix
 Test Weight - E1, E2
 Anti-Static Ionizer - CI - 01
 Anti-Vibration Pad - VRD-03
 Anti-Vibration Table - VRD-AVT 600
 Battery Backup - LBA-X 01
 Anti Draft Chamber - For Micro Balance
 Interface Cable - LBA-X 15

Software



21 CFR PART 11 PC Software



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For more information

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