



**aczel**<sup>®</sup>

... Since 1986

## Laboratory Balances & Industrial Scales



























Pharma | Food | Chemical



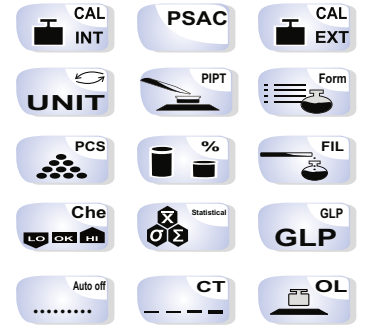
Solution Simplified

[www.aczel.com](http://www.aczel.com)



<p><b>Sensor</b> <b>The Brilliant MONO-TECH</b></p>  <p>Proven weighing technology for fast and accurate results.</p>	<p><b>Internal Calibration</b></p>  <p>Fully Automatic motorized Internal built in weights Calibration.</p>	<p><b>Perfect-Self Auto Calibration (PSAC)</b></p>  <p>Temperature controlled automatic internal adjustment (PSAC) uses the built-in weights to ensure consistently accurate results.</p>
<p><b>External Calibration</b></p>  <p>Automatic setting up of the balances accuracy. External adjusting weight required.</p>	<p><b>Custom Units</b></p>  <p>Weighing results in different units : kg, g, mg, lb, oz, ozt, Gn, dwt, mom, m, tl (according to country regulations)</p>	<p><b>Animal Weighing</b></p>  <p>When the weighing conditions are unstable, a stable weight is calculated as an average value.</p>
<p><b>Density Determination</b></p>  <p>To determine the density of solid / floating sample. Determination of the density uses Archimedes' principle.</p>	<p><b>Pipette Calibration</b></p>  <p>Balance allows you to calibrate the pipette used in laboratories for experimenting with liquids.</p>	<p><b>Formulation</b></p>  <p>This is convenient when formulating (preparing) multiple substances.</p>
<p><b>Piece Counting</b></p>  <p>Reference quantities selectable. Display can be switched from piece to weight</p>	<p><b>Percent Weighing</b></p>  <p>Determining the deviation in % from the target value (100 %)</p>	<p><b>Statistical</b></p>  <p>Allows you to generate statistics of a series of weighing values. 1 to 999 values are possible.</p>
<p><b>Filing Mode</b></p>  <p>This displays, pass, high or low judgments.</p>	<p><b>Below Weighing Hook</b></p>  <p>Hook for weighing below the balance.</p>	<p><b>Check Weighing</b></p>  <p>Upper and lower limiting can be programmed individually, e.g. for sorting and dosing. The process is supported by an audible or visual signal.</p>
<p><b>Totalization</b></p>  <p>The weights of similar items can be added together and the total can be printed out</p>	<p><b>GLP / GMP</b></p>  <p>The balance displays serial number, user ID, weight, date and time, regardless of a printer connection</p>	<p><b>Over Load Protection</b></p>  <p>Protects the weighing cell against excess weight overload.</p>
<p><b>Capacity Tracker</b></p>  <p>Capacity tracker built into display for easily monitoring possible overloads.</p>	<p><b>Automatic Shut Off</b></p>  <p>Setting the time after which the display backlight should be switched off automatically.</p>	<p><b>IP 54</b></p>  <p>Protection against dust and splashes of water</p>
<p><b>Data Interface RS-232C</b></p>  <p>To connect the balance to a printer, PC or Network.</p>	<p><b>USB Data Interface</b></p>  <p>To connect the balance to a printer, PC or network (optional)</p>	<p><b>Windows Direct</b></p>  <p>The balance can be connect to a PC via RS-232C or USB ports.</p>
<p><b>Levelling</b></p>  <p>Balances have adjustable feet to maintaining / providing uniform level.</p>	<p><b>Anti-Theft Device</b></p>  <p>Balance are equipped with a lug for optional anti-theft device. The anti-theft device (cable with ) is suitable for all models.</p>	<p><b>Protection Cover</b></p>  <p>Encloses the entire housing, protecting the balances from stains and scratches</p>

# Micro Balance CM Series



Micro Balances are the first choice for measuring the smallest sample quantities.

A Micro Balance consists of two components - one containing the electronics and the other, the precise mechanical measuring cell. This separation eliminates the effects of temperature and the influence it has on the performance of your Micro Balance scale.

### The Brilliant Mono-Tech

Unique & Unequalled high-end MONO-TECH technology sensor based on electromagnetic force compensation to match the highest international standards.

### Maximum Repeatability and Adherence to USP

The best weighing accuracy and  $sd \leq 1d$  repeatability along with adherence to USP requirements (chapter 41 and 1251) set a new benchmark for mass measurement quality.

### Infra Red Sensor

Thanks to infrared sensors, you can weigh without touching the balance. Everything is done automatically with a wave of your hand.

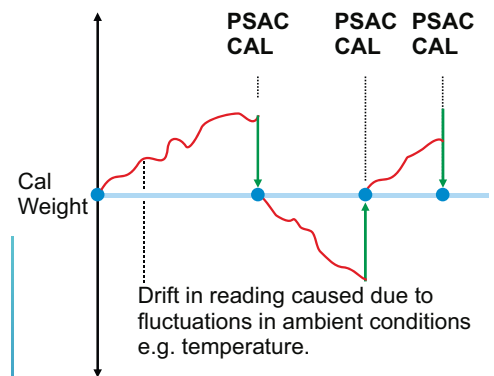
### Efficient operation

The large LCD backlit display, push button keys easy access to the main functions make these balances easy to use.

High-Quality construction and solid performance ensure consistent and precise weighing results.

### Ambient Conditions Monitoring

Balances have unique ambient conditions monitoring solution, applied to supervise environmental conditions at the balance workplace.



### Perfect Self Automatic Calibration (PSAC) CM Series

Temperature controlled automatic internal adjustment (PSAC) uses the built-in weights to ensure consistently accurate results.

### Print Format

Built-in function, you can add the date and time to your results in accordance with GMP / GLP / ISO documentation regulations.

USP (United States Pharmacopeia) 21CFR Part 11 Compliance Available on Request.

Calibration	CM
Internal Cal	✓
PSAC	✓
External Cal	✓

Model	CM 2	CM 5	CM 6	CM 11	CM 21	CM 31
Capacity	2 g	5 g	6.1 g	11 g	21 g	31 g
Minimum Load	100 µg	100 µg	100 µg	100 µg	100 µg	100 µg
Readability	1 µg	1 µg	1 µg	1 µg	1 µg	1 µg
Repeatability (+/-)	1 µg	1 µg	1 µg	1.5 µg	1.5 µg	2 µg
Linearity (+/-)	2 µg (0-500 µg) 4 µg (2 g)	2 µg (0-500 µg) 4 µg (5 g)	2 µg (0-500 µg) 4 µg (6.1 g)	3 µg (0-500 µg) 6 µg (11 g)	3 µg (0-500 µg) 10 µg (21 g)	3 µg (0-500 µg) 10 µg (31 g)
Response time	8-10 sec	8-10 sec	8-10 sec	8-10 sec	8-10 sec	8-10 sec
Minimum sample weight (U=1% K=2)	0.1 mg	0.2 mg	0.2 mg	0.24 mg	0.24 mg	0.24 mg
Minimum sample weight (as per USP)	1 mg	2 mg	2 mg	2.4 mg	2.4 mg	2.4 mg
Pan size (mm)	15 Ø ~ 30 Ø	15 Ø ~ 30 Ø	15 Ø ~ 30 Ø	15 Ø ~ 30 Ø	15 Ø ~ 30 Ø	15 Ø ~ 30 Ø

\* Performance Depending on the installation location and environmental conditions, the value could be higher.

# Optional Accessories for Balances



## Statistical Data Printer CPR 02

- GLP/GMP Header Footer.
- Date & Time Password Protected.
- Selectable Baud rate.



## Statistical Data Printer CPR 03

- GLP/GMP Header Footer.
- Date & Time Password Protected.
- Selectable Baud rate.
- Universal Interface can be connected to any other brand.



## Weighing Data Logging LBA-X 18

The data logging can be programmed to log the weight data in some particular condition or time. The automatic logging logs the weight data as soon as the weight stabilizes on the platform. It can be customized to log or accumulate the logged data and show number of cycles and total accumulated weight simultaneously



## Density Kit CDK 01

- Convert your balance into a density determination in less than a minute.
- Density kit can be used for both floating and non-floating objects.
- Easy Sample Weighing.



## Density Kit CDK 02

- Convert your balance into a density determination in less than a minute.
- Density kit can be used for both floating and non-floating objects.
- Easy Sample Weighing.
- Universal can be connected to any other brand.



## Antistatic Ionizer CI-01 / 02

The Universal AntiStatic Kit can be used with practically all balances and weighing substances. The weighing sample or container is automatically discharged by passing it through the ionizer when the balance is being loaded.

## Split Type Balance



CY-ST Series

Readability 0.1 mg / 1 mg / 10 mg

## Flameproof Balance



CY-F Series