



# aczel

...Since 1986

## Micro / Semi-Micro Balances



**BETATEK** INC.  
*Instrumentation Superbly Supported*  
*L'instrumentation à son meilleur*

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Solution Simplified

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



## Smallest Sample Highest Precision

The high precision weighing requirements in analytical testing and quantitative analyses in the pharmaceutical industry compel use of high-resolution balances. FDA-compliant working only possible with laboratory balances that meet the minimum accuracy requirements of the US Pharmacopeia. This leads to the fact that, for weighing-in of less than 10 mg, micro balances often need to be used.

In addition, the substances to be analyzed are often available only in very small quantities and are correspondingly expensive.

Aczet micro balances fulfill the most stringent requirements. They offer the user the highest level of safety in terms of result reliability and standard conformity.

### **Fast Results :**

Short measurement times result in save your valuable time during each weighing operation.

### **More than weighing :**

10 different pre-programmed applications other than basic weighing ease you routine lab work like, Filling, Statistics, Checking weighing, Percent weighing and Formulation.

### **Easy Cleaning :**

Easy and fast cleaning is especially important when working with minute sample sizes so as to prevent cross-contamination. All parts of the draft shield can be removed easily. After cleaning, the balance is ready to be used again just as quickly.

### **Good Repeatability :**

Microbalance consists of two components. One of them contains electronic modules, and the other precise mechanical measuring system. such a solution elimination of temperature changes influencing the weighing of the micro balance and thus it yield great repeatability of your weighing results.

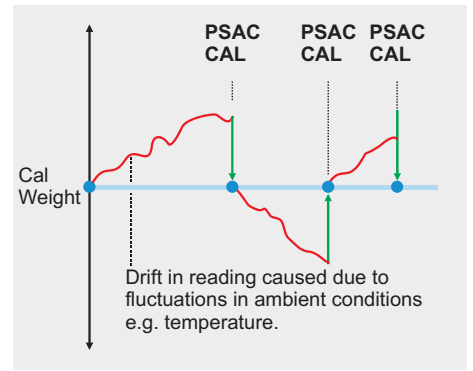


### **Glass draft shield :**

Micro balance are equipped with esthetic cylindrical shaped motorized glass draft shield helps working with minimum sample size effortless and fast. Elements of weighing chamber are manufacturer from glass with special coating inside and metal, which minimize the influence of electro static change on weighing result.

### **Infra Red Sensor :**

Thanks to infrared sensors, you can weigh without touching the balance. Everything is done automatically with a wave of your hand. You can focus completely on the sample, and weigh valuable or toxic substance safely and without spilling.



**Perfect Self Automatic calibration (PSAC):**

Thanks to Perfect Self Automatic calibration, when the ambient temperature changes by a specific value or once a defined time interval has elapsed, it performs internal calibration and adjustment fully automatically. Therefore, the balance ensures that calibration is carried out at regular intervals, and delivers consistently high accuracy.

**Connectivity :**

All balance generated data can be logged via RS232C for efficient data capture.

**Brilliant readability :**

High Contrast LED Backlit display ensures excellent readability.

**Flexible :**

User can access to multiple application other than just weighing and measure in multiple units. It generate GLP compliance printout.



**Pipette Calibration :**

Model CM11P have been specially designed for calibration of pipettes. Non-centrally located aperture in the upper part of the chamber makes it easier to insert a pipette. This allows pipette calibration with a closed weighing chamber to obtain micro gram accuracy.

**Filter weighing:**

The special metal draft shield is optimized for ultra precise weighing of filters. This filter's draft shield minimizes electrostatic effects. Different weighing pan diameters are available for different filter sizes (30 mm as standard | 50 mm and 100 mm as optional)

# Semi Micro Balance



### Brilliant readability

High contrast Graphical Display with backlit.

### Incomparably stable accuracy

Repeatability of the weights measured is an additional strength, Rugged and high height MONOTECH sensor allows balance to give exceptionally stable result.

### Perfect self Auto Calibration

When the ambient temperature changes by a specific value or once a defined time interval has elapsed, it performs internal calibration.

### Incomparably fast

An outstanding feature is speed and stable readouts with five decimal places in just five seconds.

### Application

- Food
- Pharmaceuticals
- Institute
- Laboratory
- Hallmarking
- Testing Labs.

| Model               | CM 2  | CM 5 | CM 11 | CM 19 | CM 11P | CM 2F         | CM 5F | CM 11F | CY 205C             | CY 265C      |
|---------------------|---|------|-------|-------|--------|---------------|-------|--------|---------------------|--------------|
| Capacity            | 2 gm  | 5 gm | 11 gm | 19 gm | 11 gm  | 2 gm          | 5 gm  | 11 gm  | 200 gm              | 60 / 210 gm  |
| Readability         | 1 µg  | 1 µg | 1 µg  | 1 µg  | 1 µg   | 1 µg          | 1 µg  | 1 µg   | 0.01 mg             | 0.01 / 0.1mg |
| Repeatability (sd)  | 1 µg  | 2 µg | 3 µg  | 3 µg  | 3 µg   | 2 µg          | 2 µg  | 3 µg   | 0.03 mg             | 0.02 / 0.1mg |
| Linearity (+/-)     | 3 µg  | 5 µg | 5 µg  | 10 µg | 5 µg   | 3 µg          | 4 µg  | 5 µg   | 0.1 mg              | 0.05 / 0.2mg |
| Pan Size (mm/inch)  | 15Ø / 0.6"Ø & 30Ø / 1.2"Ø                                       |      |       |       |        | 90 Ø / 3.5" Ø |       |        | 70Ø / 2.75"Ø        |              |
| Response Time       | 6 - 8 sec.  |      |       |       |        |               |       |        | 5 - 8 sec.          |              |
| Calibration         | Perfect Auto Internal Time & Temp. Controlled Smart Calibration |      |       |       |        |               |       |        |                     |              |
| Display             | High Contrast LED Backlit Display                               |      |       |       |        |               |       |        |                     |              |
| Sensitivity Drift   | 2ppm (2 x 10 <sup>-6</sup> / °C)                                |      |       |       |        |               |       |        |                     |              |
| Interface           | RS 232  |      |       |       |        |               |       |        |                     |              |
| Tare Range          | Full  |      |       |       |        |               |       |        |                     |              |
| Operating Temp.     | 18°C to 30°C  |      |       |       |        |               |       |        |                     |              |
| Power Supply        | A/C Adaptor 230V or 115V +/- 20% 50-60Hz                        |      |       |       |        |               |       |        |                     |              |
| Compliance          | ISO GLP / GMP Compliance  |      |       |       |        |               |       |        |                     |              |
| Weighing Chamber    | 90 mm Ø   |      |       |       |        |               |       |        | 165 x 185 x 220 mm  |              |
| Net Wt. / Gross Wt. | 10.20 kgs / 14.70 kgs   |      |       |       |        |               |       |        | 10.20 kg / 14.70 kg |              |
| Packing Size        | 565 x 565 x 355 / 22.2" x 22.2" x 14"                           |      |       |       |        |               |       |        | 565 x 565 x 355     |              |



## WORLD WIDE MARKETING

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