



aczel®

...Since 1986

Laboratory & Industrial
Weighing...



Solution Simplified

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Micro & Semi Micro Balances



The high precision weighing requirements in analytical testing and quantitative analyses in the pharmaceutical industry compel use of high-resolution balances that meet the minimum accuracy requirements of the US Pharmacopeia. This leads to the fact that weighing of less than 10 mg, micro balances often need to be used. micro balances fulfill the most stringent requirements offering highest level of safety reliability and conformity in terms of results.



Filter Weighing

Standard Features :

- Short Measurement times for weighing results save valuable time during each operation.
- The construction of micro balance with separate electronic modules and mechanicals system eliminates temperature changes and yields great repeatability.
- motorized glass draft shield triggered by with a wave of hand over infra red sensors help working with minimum sample size effortless and fast.
- It performs internal calibration and adjustment automatically with changes in ambient temperature by specific value on defined time interval has elapsed
- High contrast LCD Display with LED backlight ensures excellent readability. Standard RS 232C Interface. USB is Optional.
- Ultra precise weighing of filters with special metal draft shield.

| Model | CM 2 | CM 5 | CM 11 | CM 19 | CM 5F | CY 265C | CY 65C |
|---------------------|-------------|------|-------|-------|------------|-------------|-------------|
| Capacity | 2 g | 5 g | 11 g | 19 g | 5 g | 60 / 210 g | 65 g |
| Readability | 1µg | 1µg | 1µg | 1µg | 1µg | 0.01/0.1 mg | 0.01 mg |
| Repeatability (+/-) | 1µg | 2µg | 3µg | 5µg | 2µg | 0.02/0.1 mg | 0.01 mg |
| Linearity (+/-) | 3µg | 3µg | 5µg | 10µg | 3µg | 0.05/0.3 mg | 0.02 mg |
| Pan Size (mm/inch) | 15Ø / 0.59Ø | | | | 90Ø / 3.9Ø | | 75Ø / 2.95Ø |

Analytical Balances



Aczet's CY / CY C Series Analytical Balances offers exactly right performance and convenient features that you need to accomplish for the most sophisticated weighing tasks.

Standard Features :

- High Contrast LCD Display with LED Backlight for easy veiwng.
- Standard RS 232C Interface. USB is Optional
- Hanger for Below Balance weighing.
- It performs internal calibration and adjustment automatically with changes in ambient temperature by specific value on defined time interval has elapsed thanks to Perfect Self Auto Calibration.
- Complies to GLP / GMP.
- Spacious draft shield interior.
- Unique & unequalled high end MONO-TECH technology (Weigh Sensor) to match the highest international standards.
- Only a single cable is required to transfer weighing data directly to windows or MS office applications.

Statistic Calculation Function :

This smart feature enables the user to obtain the statistics of the data stored in the scale including details such as number of readings, minimum value, maximum value, standard deviation, difference and Coefficient of variance.



| Model | CY 301C | CY 224C | CY 124C | CY 64C | CY 224 | CY 124 | CY 64 |
|---------------------|-------------|---------|---------|--------|--------|--------|-------|
| Capacity | 301g | 220g | 120g | 60g | 220g | 120g | 60g |
| Readability | 0.1mg | 0.1mg | 0.1mg | 0.1mg | 0.1mg | 0.1mg | 0.1mg |
| Repeatability (+/-) | 0.2mg | 0.1mg | 0.1mg | 0.1mg | 0.1mg | 0.1mg | 0.1mg |
| Linearity (+/-) | 0.3mg | 0.2mg | 0.2mg | 0.2mg | 0.2mg | 0.2mg | 0.2mg |
| Pan Size (mm/inch) | 90Ø / 3.54Ø | | | | | | |

Precision Balances



New and improved precision series incorporates unique and unequalled High end technology built to match the highest international standards.



Standard Features :

- High Contrast LCD Display with LED Backlight for easy viewing.
- Standard RS 232C Interface. USB is Optional
- Hanger for Below Balance weighing.
- It performs internal calibration and adjustment automatically with changes in ambient temperature by specific value on defined time interval has elapsed thanks to Perfect Self Auto Calibration in CY and CY-C Models .
- Complies to GLP / GMP.
- Unique & unequalled high end MONO-TECH technology (Weigh Sensor) to match the highest international standards.
- Only a single cable is required to transfer weighing data directly to windows or MS office applications.

Statistic Calculation Function :

This smart feature enables the user to obtain the statistics of the data stored in the scale including details such as number of readings, minimum value, maximum value, standard deviation, difference and Coefficient of variance.

| Model | CY 223 | CY 323 | CY 513 | CY 723 | CY 1003 | CY 223C | CY 323C | CY 513C | CY 723C | CY 1003C |
|---------------------|-------------------------|---------|---------|---------|---------|---------|---------|---------|---------|----------|
| Capacity | 220 g | 320 g | 510 g | 720 g | 1000 g | 220 g | 320 g | 510 g | 720 g | 1000 g |
| Readability | 0.001 g | 0.001 g | 0.001 g | 0.001 g | 0.001 g | 0.001 g | 0.001 g | 0.001 g | 0.001 g | 0.001 g |
| Repeatability (+/-) | 0.001 g | 0.001 g | 0.001 g | 0.001 g | 0.002 g | 0.001 g | 0.001 g | 0.001 g | 0.001 g | 0.001 g |
| Linearity (+/-) | 0.002 g | 0.002 g | 0.002 g | 0.002 g | 0.002 g | 0.002 g | 0.002 g | 0.002 g | 0.002 g | 0.002 g |
| Pan Size (mm/inch) | 128 x 128 / 5.0" x 5.0" | | | | | | | | | |

| Model | CY 6101 | CY 8101 | CY 1202 | CY 2202 | CY 3102 | CY 4102 | CY 6102 | CY 2202C | CY 4102C | CY 6102C |
|---------------------|-------------------------|---------|---------|---------|---------|---------|---------|----------|----------|----------|
| Capacity | 6100 g | 8100 g | 1200 g | 2200 g | 3100 g | 4100 g | 6100 g | 2200 g | 4100 g | 6100 g |
| Readability | 0.1 g | 0.1 g | 0.01 g | 0.01 g | 0.01 g | 0.01 g | 0.01 g | 0.01 g | 0.01 g | 0.01 g |
| Repeatability (+/-) | 0.2 g | 0.2 g | 0.01 g | 0.01 g | 0.01 g | 0.01 g | 0.02 g | 0.01 g | 0.01 g | 0.02 g |
| Linearity (+/-) | 0.2 g | 0.3 g | 0.02 g | 0.02 g | 0.02 g | 0.02 g | 0.03 g | 0.02 g | 0.02 g | 0.03 g |
| Pan Size (mm/inch) | 195 x 195 / 7.6" x 7.6" | | | | | | | | | |

Moisture Analyzer Balances

New MB Series Moisture Analyzer with HALOGEN Heating is mainly Designed on the basis of Time Saving Factory for universal use in Chemical, Pharmaceutical, Oil, Petroleum Industries also in Material Testing & Environmental Laboratories & in Sewage Treatment Plants.



Standard Features :

- Data memory up to 1000 data.
- Data can divided in to 40 methods or 100 batches.
- User can avail statistic method or batch wise.
- Facility or compile to method.
- PS 2 key board connectivity make it very user friendly operation.
- Password protection prevent unauthorized use of the important setting.
- 4 User ID configurable.
- ISO / GLP Calibration report for weight and temperature, also last successfully calibration report can be avail any time form the memory.
- Programmable customize print format.
- Alpha numeric keypad makes it easy to enter method name.
- Weight in assist helps user to do accurate measurements.
- Facility to add any insolvent before actual drying.
- Possible to configure stand by temperature between 30°C to 100°C.
- Highly flexible display for changing font, background and contrast.
- User configurable print interval during the moisture determination.
- Auto off, Auto keypad lock.

| Model | MB 50 | MB 120 | MB 200 | MB 54 |
|----------------------------------|------------|--------|--------|---------|
| Max Capacity | 50 | 120g | 200g | 50g |
| Precision of readout mass | 1mg | 1mg | 1mg | 0.1mg |
| Precision of readout of moisture | 0.001% | 0.001% | 0.001% | 0.0001% |
| Repeatability (Sample 2g) (sd_) | 0.05% | 0.05% | 0.05% | 0.005% |
| Repeatability (Sample 10g) (sd) | 0.02% | 0.02% | 0.02% | 0.015% |
| Pan Size (mm / inch) | 94Ø / 3.8Ø | | | |

Industrial Precision Balances



Standard Features :

- It performs internal calibration and adjustment automatically with changes in ambient temperature by specific value on defined time interval has elapsed thanks to Perfect Self Auto Calibration in SSH-C.
- High contrast LED backlit LCD display is exceptionally easy to read under any room lighting conditions with digit size 15mm.
- RS 232C interface. (Optional USB interface)
- Standard under weighing hook
- EMFC Technology.

| Model | CY 15001H | CY 25001H | CY 35001H | CY 50000H | CY 15001HC | CY 25001HC | CY 35001HC | CY 50000HC |
|---------------------|---------------------------|-----------|-----------|-----------|--------------------------------|------------|------------|------------|
| Capacity | 15 kg | 25 kg | 35 kg | 50 kg | 15 kg | 25 kg | 20 kg | 50 kg |
| Readability | 0.1 g | 0.1 g | 0.1 g | 1 g | 0.1 g | 0.1 g | 0.1 g | 1 g |
| Repeatability (+/-) | 0.1 g | 0.1 g | 0.1 g | 1 g | 0.1 g | 0.1 g | 0.1 g | 1 g |
| Linearity (+/-) | 0.2 g | 0.2 g | 0.2 g | 2 g | 0.2 g | 0.2 g | 0.2 g | 2 g |
| Calibration | External Calibration | | | | Automatic Internal Calibration | | | |
| Pan Size (mm/inch) | 400 x 300 / 15.7" x 11.8" | | | | | | | |

Desk Scales



Standard Features :

- Built in Rechargeable battery for continues user for 80 hours.
- Automatic, Large weighing display with digit height 25mm and LED backlit is exceptionally.
- Easy to read under any room lighting conditions.
- Selectable weighing units gm, kg, ounce, LB.
- Optional RS 232C data interface provides the ideal basis for communication.
- Splash proof ABS Plastic housing weighing platform is made of stainless steel rust proof.

| Model | CZ 3 | CZ 6 | CZ 6H | CZ 15 | CZ 15H | CZ 30 | CZ 30 H |
|---------------------|--------------------------|-------|-------|-------|--------|-------|---------|
| Capacity | 3 kg | 6 kg | 6 kg | 15 kg | 15 kg | 30 kg | 30 kg |
| Readability | 0.1 g | 0.2 g | 0.1 g | 0.5 g | 0.1 g | 1 g | 0.5 g |
| Repeatability (+/-) | 0.2 g | 0.3 g | 0.2 g | 0.3 g | 0.2 g | 2 g | 0.6 g |
| Linearity (+/-) | 0.2 g | 0.3 g | 0.2 g | 0.3 g | 0.3 g | 2 g | 0.7 g |
| Pan Size (mm/inch) | 230 x 300 / 9.1" x 11.8" | | | | | | |

Standard Level Desk Scales



Features :

- Compact and space saving.
- Overload protection.
- 2,00,000 internal resolutions.
- LED 7 digit display for easy viewing.
- Inbuilt rechargeable battery for continuous use.
- Standard dual side or external display.
- 8 different weighing units.

| Model | CG 302 | CG 602 | CG 1202 |
|---------------------|--------|--------|---------|
| Capacity | 300 g | 600 g | 1200 g |
| Readability | 0.01 g | 0.01 g | 0.01 g |
| Repeatability (+/-) | 0.01 g | 0.01 g | 0.01 g |
| Linearity (+/-) | 0.02 g | 0.02 g | 0.02 g |
| Pan Size (mm) | 118Ø | | |

Economy Scales

Standard Features :

- Backlit LCD Display
- Concept of easy use
- Battery Operation
- Piece counting
- Totalization
- Compact Size
- Capacity bar graph
- Below Balance weighing
- Percentage (%) Weighing



| Model | CZ 153 | CZ 602 | CZ 1202 | CZ 2202 | CZ 601 | CZ 1201 | CZ 2001 | CZ 3001 | CZ 6001 |
|---------------------|------------|--------|---------|---------|-------------------------|---------|---------|---------|---------|
| Capacity | 150 g | 600 g | 1200 g | 2200 g | 600 g | 1200 g | 2000 g | 3000 g | 6001 g |
| Readability | 0.001 g | 0.01 g | 0.01 g | 0.01 g | 0.1 g | 0.1 g | 0.1 g | 0.1 g | 0.1 g |
| Repeatability (+/-) | 0.002 g | 0.01 g | 0.01 g | 0.02 g | 0.1 g | 0.1 g | 0.1 g | 0.1 g | 0.2 g |
| Linearity (+/-) | 0.002 g | 0.02 g | 0.02 g | 0.02 g | 0.2 g | 0.2 g | 0.2 g | 0.2 g | 0.2 g |
| Pan Size (mm/inch) | 120 / 4.7" | | | | 140 x 150 / 5.5" x 5.9" | | | | |

Electronic Densimeter

Archimedes Principle



Top precision model with density resolution at 4 decimal places for both Solid and Liquid. Easy operation, as same as the other models. Suitable for Plastic Pellets, Films, Rubber and Fabric and advanced material, and Liquid density in the field of Medical, Food and Chemical that need to be measured to avoid the error on the third decimal.

Optional Accessories



Liquid Density Kit

Data Printer

Test Weights

| Model | CY 323GT | CY 613GT | CY 612GT | CY 3102GT |
|---|--|-----------|-----------|-----------|
| Scale Capacity | 320 g | 600 g | 600 g | 3100 g |
| Density Resolution (g/cm ³) | 0.001 | 0.001 | 0.01 | 0.01 |
| Feature | Solid | Solid | Solid | Solid |
| Weight in Air Pan Size (mm) | 108 x 100 | 108 x 100 | 160 x 140 | 160 x 140 |
| Weight in Water Pan Size (mm) | 100 x 92 | 100 x 92 | 160 x 140 | 160 x 140 |
| Power | A/C Adapter 230 V or 115V +/- 20% 50-60 Hz | | | |
| Weight | 7.8 kg | 7.8 kg | 5.5 kg | 5.5 kg |

Platform Scales

Standard Features :

- Rechargeable internal battery as standard. Operating time approx. 80h.
- Large weighing display with digit height 25 mm with Auto High contrast LED Backlight makes it exceptionally easy to read under any room lighting conditions.
- Selectable weighing units gm, kg, ounce, lb housing design.
- Optional RS 232C data interface provides the ideal basis for communication.
- Washdown housing design.



| MODEL | CTG 50B | CTG 60 | CTG 60 | CTG 100 | CTG 200 | CTG 300 | CTG 500 | CTG 500 | CTG 1000 |
|--------------------|-----------|--------|-----------|---------|-----------|-----------|---------|-----------|-----------|
| Capacity | 50 Kg | 60 Kg | 60 Kg | 100 Kg | 200 Kg | 300 Kg | 500 Kg | 500 Kg | 1000 Kg |
| Readability | 5 g | 5 g | 10 g | 10 g | 20 g | 20 / 50 g | 50 g | 100 g | 200 g |
| Platform Size (mm) | 400 x 400 | | 500 x 500 | | 600 x 600 | | | 750 x 750 | 900 x 900 |

Standard Weight & Weight Sets



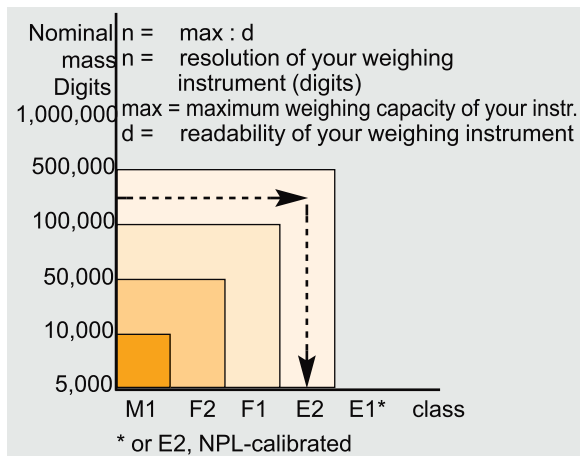
- A balance can never be more accurate than the test weight, used to adjust it, it depends on its tolerance.
- **Here's how to find the right test weight**
- Just determine the number of digits specified for your weighing instrument's resolution, then read off the particular accuracy class that your test weight must have on the graph provided below.
- The weight value of your test weight should be more than 80% of the maximum capacity of your weighing instrument.

Example : Suppose your weighing instrument has a capacity of 2,200g and a Readability of 0.01g. This yields 220,000 digits, which correspond to a class E2 test weight. Since 80% of 2,200 g is 1,760g, you need to round it to a weight value of 2,000g.

Single Weight

| Mass Weight | Part No. | | |
|-------------|----------|--------|--------|
| | E2 | F1 | F2 |
| 1 g | 117-01 | 126-01 | 137-01 |
| 2 g | 117-02 | 126-02 | 137-02 |
| 5 g | 117-03 | 126-03 | 137-03 |
| 10 g | 117-04 | 126-04 | 137-04 |
| 20 g | 117-05 | 126-05 | 137-05 |
| 50 g | 117-06 | 126-06 | 137-06 |
| 100 g | 117-07 | 126-07 | 137-07 |
| 200 g | 117-08 | 126-08 | 137-08 |
| 500 g | 117-09 | 126-09 | 137-09 |
| 1 kg | 117-11 | 126-11 | 137-11 |
| 2 kg | 117-12 | 126-12 | 137-12 |
| 10 kg | 117-14 | 126-14 | 137-14 |

- According to OIML-R111 standard.
- Outstanding Cost Performance Ratio.
- Modern Calibration Methods Allow Exact Calibration and higher accuracy.
- Calibrated by NPL / NABL / RRSL / DKD (Germany) / NVLAP / UKAS (UAS) Accredited.
- E1 to M1 Class Weight with or without certification.
- Material density of the weights is 8000kg / m³, air density is 1.2 kg / m³, and measuring temperature is 20°C.



Weight Sets

| Mass Weight | Part No. | | |
|-------------|----------|--------|--------|
| | E2 | F1 | F2 |
| 1mg - 500mg | 118-22 | 123-01 | 138-22 |
| 1mg - 50 gm | 118-02 | 123-02 | 133-02 |
| 1mg - 100gm | 118-03 | 123-03 | 133-03 |
| 1mg - 200gm | 118-04 | 123-04 | 133-04 |
| 1mg - 500gm | 118-05 | 123-05 | 133-05 |
| 1mg - 1kg | 118-06 | 123-06 | 133-06 |
| 1mg - 2kg | 118-07 | 123-07 | 133-07 |
| 1mg - 5 kg | 118-08 | 123-08 | 133-08 |
| 1mg - 10kg | 118-09 | 123-09 | 133-09 |

Ultrasonic Milk Analyzer (Milk Pro+)

Features :

- Large graphic display.
- Peristaltic pump.
- No periodical calibration is needed.
- New ultrasonic sensor for higher precision and repeatability of the results.
- Bilingual menu.
- Memory for 50 measurement.



| Model | Measuring Range | Accuracy |
|---------------------|------------------------------------|----------|
| PARAMETER | | |
| Fat | From 0.01% to 20% | ± 0.08 |
| Solid-non-fat (SNF) | From 3% to 40% | ± 0.15 |
| Density | From 1000 to 1150kg/m ³ | ± 0.3 |
| Protein | From 2% to 7% | ± 0.15 |
| Lactose | From 0.01% to 20% | ± 0.2 |
| Added Water | From 0% to 70% | ± 3.0 |
| Freezing point | From -0.400 to -0.700±C | ± 0.005 |
| Sample Temp. | From 1±C to 40±C | ± 1 |

TEMP. KIT



ALLUMINIUM DISH



CDP 50 Set of 50 Pcs

DENSITY KIT



STATISTICAL PRINTER (CPR02)



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