



Citizen®

ISO 9001 : 2000 CERTIFIED



IS 9281: Part 3 : 1981



CML- 7777809



Laboratory & Industrial
Weighing...



Turning Technology into Solutions

www.citizeninc.com



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.

Citizen 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	CX 265	CX 65
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



Citizen's CX / CY 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	CX 301	CX 220	CX 120	CX 64	CY 204	CY 104	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



CITIZEN'S 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-C and CG-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 220	CY 320	CY 510	CY 720	CY 1003	CY 220C	CY 320C	CY 510C	CY 720C	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	CG 6101	CG 8101	CG 1202	CG 2202	CG 3102	CG 4102	CG 6102	CG 2202C	CG 4102C	CG 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

Citizen's 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	SSH 95	SSH 94H	SSH 93	SSH 92	SSH 95C	SSH 94HC	SSH 94C	SSH 92C
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	CTG 3	CTG 6	CTG 6H	CTG 15	CTG 15H	CTG 30	CTG 30 H	CTG 60 H
Capacity	3 kg	6 kg	6 kg	15 kg	15 kg	30 kg	30 kg	60 kg
Readability	0.1 g	0.2 g	0.1 g	0.5 g	0.1 g	1 g	0.5 g	1 g
Repeatability (+/-)	0.2 g	0.3 g	0.2 g	0.3 g	0.2 g	2 g	0.6 g	2 g
Linearity (+/-)	0.2 g	0.3 g	0.2 g	0.3 g	0.3 g	2 g	0.7 g	3 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	CTG 302	CTG 602	CTG 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"					

Compact Scales

Standard Features :

- MP series have an ABS Plastic housing body.
- LCD backlit display.
- Simple battery operation.
- Weighing units include g, ct, dwt, ozt.
- Adopter (Optional)
- Large square pan design for 0.1 / gm accuracy.



Model	MP 200	MP 300	MP 600	MP 2000	MP 3000	MP 6000
Capacity	200 g	300 g	600 g	2000 g	3000 g	6000 g
Readability	0.01 g		0.1 g		1 g	
Repeatability (+/-)	0.01 g		0.1 g		1 g	
Linearity (+/-)	0.02 g		0.2 g		2 g	
Pan Size (mm)	155 X 155					

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	CTB 30	CTB 60	CTB 60H	CTB 150	CTB 300	CTB 600	CTB 750	CTB 30L	CTB 60L	CTB 150L	CTB 300L	CTB 600L	CTB 750L		
Capacity	30 kg	60 kg	60 kg	150 kg	300 kg	600 kg	750 kg	30 kg	60 kg	150 kg	300 kg	600 kg	750 kg		
Readability	5 g	5 g	1 g	10 g	20 g	50 g	200 g	10 g	20 g	50 g	100 g	200 g	500 g		
Repeatability (+/-)	5 g	5 g	2 g	10 g	20 g	50 g	200 g	10 g	20 g	50 g	100 g	200 g	500 g		
Linearity (+/-)	10 g	10 g	2 g	20 g	40 g	100 g	400 g	10 g	20 g	50 g	100 g	200 g	500 g		
Pan Size (mm)	420 x 520 / 16.5" x 20"				800 x 600		750 x 750		420 x 520 / 16.5" x 20"				800 x 600		750 x 750

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.

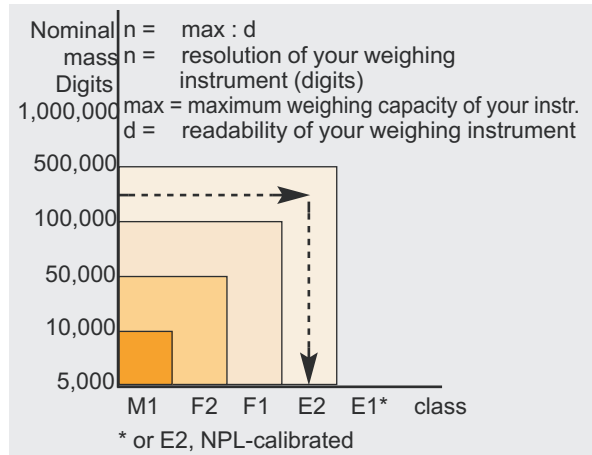
• The weight value of your test weight should be more than 80% of the maximum capacity of your weighing instrument.

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



ALUMINIUM DISH



CDP 50 Set of 50 Pcs

DENSITY KIT



STATISTICAL PRINTER (CPR02)



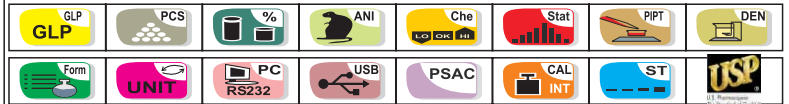
Citizen Instruments Co. Ltd.






3A1, 3rd Floor, BIS Building, 119, Mahesak Road, Suriyawong, Bangrak, Bangkok 10500, Thailand.
 Mob: (+66) 920456757 | Off : (+66) 026359620 Email: sea@citizeninc.co.th | Web: www.citizeninc.com



--	--	--

Mass Weight	Tolerance		
	E2	F1	F2
1 g	± 0.03mg	1mg - 500mg ± 0.10mg	± 0.3mg
2 g	± 0.04mg	1mg - 50 gm ± 0.12mg	± 0.4mg
5 g	± 0.05mg	1mg - 100gm ± 0.16mg	± 0.5mg
10 g	± 0.06mg	1mg - 200gm ± 0.20mg	± 0.6mg
20 g	± 0.08mg	1mg - 500gm ± 0.25mg	± 0.8mg
50 g	± 0.10mg	1mg - 1kg ± 0.3mg	± 1.0mg
100 g	± 0.16mg	1mg - 2kg ± 0.5mg	± 1.6mg
200 g	± 0.3mg	1mg - 5 kg ± 1.0mg	± 8.0mg
500 g	± 0.8mg	1mg - 10kg ± 2.50mg	± 8mg
1 kg	± 1.6mg	± 5.0mg	± 16mg
2 kg	± 3.0mg	± 10mg	± 30mg
10 kg	± 16.0mg	± 50mg	± 160mg



<p>Antistatic Ionizer</p> 	<p>Citizen Laboratory Holders</p> 	<p>TEMP. KIT</p> 	<p>ALLUMINIUM DISH</p>  <p>CDP 50 Set of 50 Pcs</p>
<p>REMOTE DISPLAY (SRD01)</p> 	<p>STATISTICAL PRINTER (CPR02)</p> 	<p>DENSITY KIT</p> 	