



Pharma - Analytical Laboratory Weighing Balances & Industrial Scales



Turning Technology into Solutions

www.madhuchemical.com



Precise Results Unrivalled in its performance class

Citizen Scale (I) Pvt Ltd is a leading global supplier of Laboratory weighing balance and precision instruments and services. We have strong leadership positions in all of our businesses and believe we hold global market positions in a majority of them. Specifically, we are the largest provider of weighing Balance & instruments for use in pharma, laboratory, industrial and food retailing applications. We are also a leader in analytical instruments, reaction engineering and real-time analytic systems, process analytics instruments and end-of-line product inspection systems. Our solutions are critical in key R&D, quality control and manufacturing processes for customers in a wide range of industries. Our global sales and service network is one of the most extensive in the industry. We have subsidiaries, sales and service operations in 10 countries.

New Citizen Balances will impress you with their excellent performance, delivering accurate results within the shortest possible time, thanks to MonoTech and Perfect Self Automatic Calibration (PSAC).



Pharma - Analytical Laboratory Weighing Balances & Industrial Scales



Easy Data Transfer

Only a single cable is required to transfer balance data to MSExcel or other Windows application.

No troublesome interface attachment or software installation is necessary. This unique feature makes Citizen balance extremely convenient for data analysis.



EXCELLENT R EADABILITY

High Contrast Backlit LCD display is exceptionally easy to read under any room lighting conditions.



THE BRILLIANT MONO-TECH

Unique & unequalled high end MONO-TECH technology (Weigh Sensor) to match the highest international standards.



ELECTROMAGNETIC COMPATIBILITY Metal housing eliminates the effects of thunderstorms or electromagnetic inter-ference from other equipments.



CITIZEN CM Series is designed to meet the highest requirements for determination of mass. Its built-in system of automatic internal adjustment/calibration maintains excellent measurement reliability and accuracy.

The device comprises two major components (an indicator and a precise mechanical measuring system which are enclosed separately). Such design eliminates an influence of heat sourcing from instrument's electronics on its mechanical components and additionally protects it from shocks and vibrations caused by users operating the instrument. All the elements of a microbalance are made of glass and steel which eliminates an impact of electro statics on weighing process.

 Internal Calibration / Adjustment Inside the balance housing are built in motor i zed cal ibration / adjustment weights.

- iso CAL Perfect Self Auto Calibration When the ambient temperature changes by a specific value or once a defined time interval has elapsed, it performs External Calibration.
- ISO 8655 & 4787 NABL Micro Pipette standard as per FDA rule compliance.

USP (United States Pharmacopeia) 21CFR Part 11 Compliance Available on Request. Performance Depending on the installation location and environmental conditions, the value could be higher.

Laboratory Weighing Application

- Food Pharmaceutical Research Institute
- Testing Laboratory Pollution Control Board
- Environmental Testing Laboratory
- Mass and Volume Testing Laboratory
- Hospital Research Lab

	MODEL	UCM 2	CM 5	CM 6.1	CM 11	CM 21	CM 31	CM 2F	CM 5F	CM 11P			
	CAPACITY	2.1 g	5 g	6.1 g	11 g	21 gm	31 gm	2 gm	5 gm	11 gm			
	READABILITY	0.1 µg	1 µg	1 µg	1 µg	1 µg	1 µg	1 µg	1μg	1 µg			
	REPEATABILITY (+/-)	0.3 µg	1 µg	1 µg	1 µg	3 µg	8 µg	1 µg	1μg	3 µg			
	LINEARITY (+/-)	1.5 µg	5 µg	5 µg	6 µg	8 µg	10 µg	5 µg	5 µg	6 µg			
	Min. Weight as per USP	0.3 mg	2 mg	2 mg	6 mg	8 mg	10 mg	2 mg	2 mg	6 mg			
	PAN SIZE (MM/INCH)		30Ø / 1.2Ø 50-100Ø 15Ø / 0.										
	RESPONSE TIME		6-8 sec.										
	CALIBRATION		Perfe	ect Auto Inte	ernal Time 8	Temp Con	trolled Sma	rt Calibratio	on				
	DISPLAY			E.P.									
	UNITS OF MEASURE	g, mg, ct, GN, mo, oz, dwt											
	SENSITIVITY DRIFT		± 1ppm / °C in temperature +15° to 35°C										
	INTERFACES		RS-232C or USB										
	TARE RANGE	Full Capacity											
1	OPERATING TEMP.		18°C ~ 30°C										
	PROTECTION			User A	Administratio	on & Passwo	ord Protecti	on					
	TERMINAL			Detac	chable & Ad	djustable Di	splay Termir	nal					
)	APPLICATION MODES	PCS	5, % Weighi	ng, Animal/	Dynamic W	eighing, Cł	neck Weigh	ing, Autom	atic Densit	у			
	AT LICATION MODES	Determination Formulation etc. ISO GLP / GMP Compliance A/C Adapter 230 V or 115V +/- 20% 50-60 Hz 90 mm Ø											
	COMPLIANCE												
	POWER SUPPLY												
	WEIGHING CHAMBER												
	NET WT. / GROSS WT.				10.20	kg / 14.70	kg						
	PACKING SIZE (mm/inch)			565 x 56	65 x 355 / 22	2.2" x 22.2" :	x 14" (L x W	x H)					

C M S E R I I

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Specifications of

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CX SERIES Semi-Micro Balances

CITIZEN Semi-Micro Balances has been designed to meet high requirement for measuring small masses with high readability (d =1mg). They are equipped with Alpha Numerical display with user menu, and CX Series Semi-Micro range 0.01mg to 220g.

STANDARD FEATURES - CX Series

- Easy to read Large backlite LCD display with A.E.P. (Advanced Eye Protection)
- Standard RS 232 C interface.
- Windows Direct Communication
- Hanger for Below Balance weighing iso CAL Perfect Self Auto Calibration When the ambient temperature changes by a specific value or once a defined time interval has elapsed, it performs External Calibration & fully automatic Internal calibration with built in
- motorized calibration weight for CX Series.
- Sensor Type : EMFC
- IP Protection : IP54
- Dye cast aluminium design for long term stability and accurate results
- User selectable stability and filter level
- Spacious draft shield interior
- Improved Repeatability For Better Results
- Statistics & Totalization
- Animal Weighing & Formulation
- Density measurement for solid and liquid [With optional eqp. & software]
- Auto Zero tracking
- Sprit leveling : Balance have adjustable feet for maintaining / providing uniform level.
- Overload protection.
- Two Tare Keys (Left & Right) Programmable smart keys provided for
- shortcut access to applications like Power On/Off, Tare etc.
- Balance are equipped with a lug for optional anti-theft device.
- Real Time Clock.
 - USP (United States Pharmacopeia) 21CFR Part 11 Compliance Available on Request. Performance Depending on the installation location and environmental conditions, the value could be higher.

					0					
	MODEL	CX 205	CX 265N	CX 265	CX 165	CX 85S				
	CAPACITY	200g	80/220g	60/210g	100/160g	80g				
	READABILITY	0.01mg	0.01/0.1mg	0.01/0.1mg	0.01/0.1mg	0.01mg				
	REPEATABILITY (+/-)	0.03mg	0.02/0.1mg	0.02/0.1mg	0.02/0.1mg	0.02mg				
	LINEARITY (+/-)	0.1mg	0.04/0.2mg	0.05/0.2mg	0.05/0.2mg	0.04mg				
	Min. Weight as per USP	30mg	30mg	30mg	30mg	30mg				
	PAN SIZE (MM/INCH)			80Ø / 3.15''Ø						
	RESPONSE TIME			5 - 8 sec.						
	CALIBRATION	led Smart Calibration								
	DISPLAY		Alpha Numerical LCD Backlite Display with A.E.P.							
	UNITS OF MEASURE		g, mg, ct, GN, mo, oz, dwt							
	SENSITIVITY DRIFT									
^	INTERFACES			RS-232C or USB						
	TARE RANGE			Full Capacity						
	OPERATING TEMP.			18°C ~ 30°C						
Z	PROTECTION		User Admi	nistration & Password	Protection					
	TERMINAL		Detachab	le & Adjustable Displ	ay Terminal					
			PCS, % Weighing, An	imal/Dynamic Weigh	ing, Check Weighing,					
n	APPLICATION MODES		Automatic De	nsity Determination Fe	ormulation etc.					
	COMPLIANCE	ISO GLP / GMP Compliance								
	POWER SUPPLY	A/C Adapter 230 V or 115V +/- 20% 50-60 Hz ABER 165mm x 185mm x 220mm								
	WEIGHING CHAMBER									
POWER SUPPLY A/C Adapter 230 V or 115V +/- 20% 50-60 Hz WEIGHING CHAMBER 165mm x 185mm x 220mm NET WT. / GROSS WT. 10.20 kg / 14.70 kg										
	PACKING SIZE (mm/inch)		565 x 565 x 3	355 / 22.2" x 22.2" x 14	4" (L x W x H)					

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GLP GLP PCS					
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PIPT					
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Form					
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UNIT	0.2			//	/
PC RS 232	Citizon			te	1
USB	0 c s	77 📀		and the second sec	
		2	11		
		-		FORMATS	•
	Split Type Balance		22-Mar-12 Citize:	11:13AM	
EXT Statistical			Model Ser. no. Ver. no. ID	CX 220 9021107 r0.1.04 1234567	
σΣ				Internal	•
Pharmacopeia			Temperature Set + Diff.	29.378'C 200.0000g -0.0031g	
Standard of Quality ^{as}			Internal Cal I Diff.	0.000g	
	· Turnel.			11:13AM	
				ional Lev	
	MODEL CAPACITY	CX 320	CX 220	CX 120	CX 65
	READABILITY	320 g 0.1mg	220 g 0.1mg	120 g 0.1mg	65 g 0.1mg
	REPEATABILITY (+/-)	0.1mg 0.2mg	0.1mg	0.1mg 0.1mg	0.1mg 0.1mg
S	LINEARITY (+/-)	0.2mg	0.111g 0.2mg	0.1mg 0.2mg	0.1mg 0.2mg
Ш	Min. Weight as per USP	160mg	160mg	160mg	160mg
	PAN SIZE (MM/INCH)	isonig	lioung	ioung	90Ø
	RESPONSE TIME				2 - 3
	DISPLAY			Alpha Num	erical LCD B
S T	CALIBRATION		Motorise	d Internal	
	UNITS OF MEASURE				m, mg, ct, G
0	TARE RANGE			9	Ful Co
i –	OPERATING TEMP.				10°C
\Box	PROTECTION			User Adr	ministration &
011	SENSITIVITY DRIFT				/ °C in temp
<pre>ifications of /CY SERIES</pre>			PCS. %	Weighing, A	
1 I I	APPLICATION MODES	Au	utomatic Den		
	COMPLIANCE		= ••••		GLP / GMP /

CX/CY SERIES Analytical Balances

CITIZEN 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 - CX / CY Series

- Easy to read Large backlite LCD display with A.E.P. (Advanced Eye Protection)
- Standard RS 232 C interface.
- Windows Direct Communication
- Hanger for Below Balance weighing
- iso CAL Perfect Self Auto Calibration When the ambient temperature changes by a specific value or once a defined time interval has elapsed, it performs External Calibration & fully automatic Internal calibration with built in motorized calibration weight for CX Series
- Automatic External calibration for CY Series
- Sensor Type : Electromagnetic force compensation
- IP Protection : IP54
- Dye cast aluminium design for long term stability and accurate results
- User selectable stability and filter level
- Spacious draft shield interior
- Improved Repeatability For Better Results
- Statistics & Totalization
- Animal Weighing & Formulation
- Density measurement for solid and liquid [With optional eqp. & software]
- Auto Zero tracking
- Sprit leveling : Balance have adjustable feet for maintaining / providing uniform level.
- Overload protection.
- Two Tare Keys (Left & Right)
- Programmable smart keys provided for shortcut access to applications like Power On/Off, Tare etc.
- Balance are equipped with a lug for optional anti-theft device.
- Real Time Clock.
- USP (United States Pharmacopeia) 21CFR Part 11 Compliance Available on Request. Performance Depending on the installation location and environmental conditions, the value could be higher.

Standard Level CY 304 CY 204 CY 104 CY 64 120 g 320 g 220 g 60 g 0.1mg 0.1mg 0.1mg 0.1mg 0.1mg 0.1mg 0.1mg 0.1mg 0.2mg 0.2mg 0.2mg 0.2mg 160mg 160mg 160mg 160mg / 3.5Ø 3 sec. Backlite Display with A.E.P. **Automatic External** CALIBRATION **Motorised Internal** gm, mg, ct, GN, mo, oz, dwt UNITS OF MEASURE Ful Capacity TARE RANGE 10°C ~ 40°C OPERATING TEMP. User Administration & Password Protection PROTECTION ± 1ppm / °C in temperature +15° to 35°C SENSITIVITY DRIFT PCS, % Weighing, Animal / Dynamic Weighing, Check Weighing, APPLICATION MODES Automatic Density Determination, Formulation, Automatic Statistic Calculator etc. COMPLIANCE ISO, GLP / GMP / USP Compliance POWER SUPPLY A/C Adapter 230 V or 115 V +/- 20% 50-60 Hz NET WT. / GROSS WT. 8.0kg / 9.3kg PACKING SIZE (mm/inch) 470mm x 310mm x 500mm / 18.5" x 12.2" x 19.7" (L x W x H)





GLP PRINT FORMATS

FII

UNIT

PC

RS 232

USB

CAL

L

Specifications of

Citize	en
Model	CY 220
Ser. no.	1624590
Ver. no.	r0.1.04
ID	123456
Calibration:	Interna
W-ID	
Temperature	29.378'0
Set	+ 200.0000
Diff.	-0.0310
Internal Cal	Done
Diff.	0.000
22-Mar-12	11:13AM
Name :	

Split Type Balance



Professional Level

CY-C / CY SERIES Precision Balances

CITIZEN new and improved precision series incorporates unique and unequaled High end technology built to match the highest international standards. The result is TEN fold increase in weighing performance which maintains our proven, simple and easy to use operator interface. Attractive quality of this new design is demonstrated by the **CE mark** of conformity along with the CITIZEN ISO 9001:2008 certification.

STANDARD FEATURES

- Easy to read Large backlite LCD display with A.E.P. (Advanced Eye Protection)
- Standard RS 232 C interface.
- Windows Direct Communication
- Hanger for Below Balance weighing
- iso CAL Perfect Self Auto Calibration When the ambient temperature changes by a specific value or once a defined time interval has elapsed, it performs External Calibration & fully automatic Internal calibration with built in motorized calibration weight for CY - C Series
- Automatic External calibration for CY Series
- Sensor Type : Electromagnetic force compensation
- IP Protection: IP54
- Dye cast aluminium design for long term stability and accurate results
- User selectable stability and filter level
- Spacious draft shield interior
- Improved Repeatability For Better Results
- Statistics & Totalization
- Animal Weighing & Formulation
- Density measurement for solid and liquid
- [With optional eqp. & software]
- Auto Zero tracking
- Sprit leveling : Balance have adjustable feet for maintaining / providing uniform level.
- Overload protection.
- Two Tare Keys (Left & Right)
- Programmable smart keys provided for shortcut access to applications like Power On/Off, Tare etc.
- Balance are equipped with a lug for optional anti-theft device.
- Real Time Clock
 - USP (United States Pharmacopeia) 21CFR Part 11 Compliance Available on Request. Performance Depending on the installation location and environmental conditions, the value could be higher.

Standard Level

		riolessional Level					Sidildala Level						
MODEL	CY 220C	CY 510C	CY 1003C	CY 2003C	CY 120	CY 220	CY 320	CY 510	CY 720	CY 1003	CY 2003	CY 3003	
CAPACITY	220 g	510 g	1000 g	2000 g	120 g	220g	320 g	510 g	720 g	1000 g	2000 g	3000 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	0.001 g	0.001 g	
REPEATABILITY (+/-)	0.001 g	0.001 g	0.002 g	0.003 g	0.001 g	0.001 g	0.001 g	0.001 g	0.001 g	0.002 g	0.003 g	0.003 g	
LINEARITY (+/-)	0.002 g	0.002 g	0.005 g	0.005 g	0.002 g	0.002 g	0.002 g	0.002 g	0.002 g	0.005 g	0.005 g	0.005 g	
Min. Weight as per USP	1g	1g	1g	1g	1 g	1g	1g	1g	1 g	1g	1g	1 g	
PAN SIZE (mm/inch)	128 x 128 mm / 5.0" x 5.0"											
RESPONSE TIME		2-3 sec.											
DISPLAY		Alpha Numerical LCD Backlite Display with A.E.P.											
CALIBRATION		Motorise	d Interna	I			A	utomatic	External				
UNITS OF MEASURE					gm	, mg, ct,	GN, mo,	oz, dwt					
TARE RANGE						Full (Capacity						
OPERATING TEMP.						10°	~ 40°C						
SENSITIVITY DRIFT				1	± 1ppm /	°C in ten	nperature	e +15° to	35°C				
PROTECTION				U	ser Admi	nistration	& Passw	ord Prote	ction				
APPLICATION			PCS	S, % Weig	hing, Ani	imal / Dy	namic W	eighing C	Check We	eighing,			
MODES		Automatic Density, Determination, Formulation Automatic Statistic Calculator etc.											
COMPLIANCE		ISO GLP / GMP / USP Compliance											
POWER SUPPLY				A	/C Adap	oter 230 \	/-115V +/	- 20% 50-	60 Hz				
NET WT. / GROSS WT.						5 k	g / 6 kg						
PACKING SIZE (mm/inch))			510) x 410 x 3	330 / 20.1	" x 16.1"	x 13" (L x	W x H)				

							С	G-C	/ C	G SI	ERIES
GLP PCS							CITIZEN r incorpora technolo internation increase maintains operator i design is	new and tes unique ogy built nal stand in weig our prov interface. demonst y along w	improve e and ur to mc ards. The hing pe en, simpl Attractive rated by	ed precise hequaled atch the result is rformance and ec e quality the CE	high end high end high end thigh est TEN fold ce which asy to use of this new mark of 9001:2008
		Citizor	× · · ·	894			A.E.P. (A Standard Window Hangert iso CAL ambient value o elapsed automa	read Larc dvanced dRS 232 C s Direct Co for Below E Perfect Se t tempero r once a l, it perforr	ge backlii Eye Prote interface ommunic Balance w I f Auto C a defined ns Externa al calibr	ction) ation veighing alibration inges by time inte al Calibra ation wit	When the a specific erval has tion & fully h built in C Series
FL	GLP PRINT FORMATS						 Automa Sensor comper 	Type :			Series tic force
	24-Jun-16 11:13A Citizen Model CG 310 Ser. no. 162475 Ver. no. r0.1.0 ID 123456 Calibration: Interna W-ID	2 4 4 7 1	Spli	t Type Ba	lance		 IP Protect Dye constability User selet Spaciout Improvet Statistics Animal W Density r 	ction : IP54 ast alumir and accu ectable sto s draft shie d Repeat & Totalize Weighing 8 measurem tional eqp	rate result ability and ability For ability For ation & Formula aent for so o. & softwo	is I filter leve Better Res tion lid and liq	sults
	Internal Cal Done Diff. 0.00 22-Mar-12 11:13A Name :			C Citizon	State State	-	 Maintain Overloa Two Tare Program access etc. Balance 	ning / prov d protecti Keys (Lef mable sm to applicc	riding unif on. t & Right) hart keys p htions like	orm level provided f Power Oi	ole feet for or shortcut n/Off, Tare or optional
U.S. Pharmacopeia The Standard of Quality"			Citizon				Real time USP (Uni 11 Con Perform location	eclock ited States mpliance ance De	e Availa oending vironmen	ble on on the	21CFR Part Request. installation litions, the
) (rofession	al Level			Stan	dard Le		jiici.		Dual Range
Ŭ.	MODEL	CG	CG	CG	CG	CG	CG	CG	CG	CG	CG
	CAPACITY	2202C 2200g	4102C 4100g	602 600g	1202 1200g	2202 2200g	3102 3100g	4102 4100g	6102 6100g	8102 8100g	3102DR 300g/3000g
2	READABILITY	0.01g	0.01g	0.01g	0.01g	0.01g	0.01g	0.01g	0.01g	0.01g	1mg/10mg
U .	REPEATABILITY (+/-)	0.01g	0.01g	0.01g	0.01g	0.01g	0.01g	0.01g	0.01g	0.01g	1mg/10mg
U.	LINEARITY (+/-)	0.02g	0.02g	0.02g	0.02g	0.02g	0.02g	0.02g	0.02g	0.05g	1mg/10mg
	Min. Weight as per USP	8.2g	8.2g	8.2g	8.2g	8.2g	8.2g	8.2g	8.2g	8.2g	8.2g
ٹ ل	PAN SIZE (mm/inch) RESPONSE TIME	195 x 195 /	/.o X/.6"	120 X 120/	5.0" x 5.0"	2-39		195 / 7.6"	. / .0		128 x 128
	DISPLAY			Alph	na Numeric		icklite Displa	ay with A.E	.P.		
ĔĊ		Motorise	d Internal				Automatic				
0	UNITS OF MEASURE			gm, mg	i, ct, GN, m		t, †1T, †1H, †1	S, mom, B	at, MS		
Ť						Full Ca	. ,				
Ū,	OPERATING TEMP. PROTECTION				lser Admin	- 10°C istration &	- 40°C Password F	Protection			
Ŭ (SENSITIVITY DRIFT						erature +15				
pecifications	APPLICATION MODES		P		1 1 1		imic Weighi		Weighing	,	
				-	eterminati	on, Formu	lation Auto	matic Stat			
	COMPLIANCE						USP Compli				
Ŏ	POWER SUPPLY			ŀ	A/C Adapt		15 V +/- 209	% 50-60 Hz			
S L	NET WT. / GROSS WT. PACKING SIZE (mm/inch)			E10		5 kg /	<u>′ 6 kg</u> 15.8'' x 10.2)" (v \\/ v	-1)		
				510	1 A 400 X 20	0/20.1 X	1J.0 X 10.2	. (LX VV X I	ij		

						N	B S	ERIES
			M	oistur	e Ana	lyzer E	Balc	ances
				Citizen' HALOG Time So Pharmo Materio Sewage	s New MB S EN Heating is n aving Factor accutical, Oil, al Testing & Er Treatment Pla	Series Moistu mainly Design for universal Petroleum nvironmental ants.	re And ned on use in Industri Labord	alyzer With the basis of Chemical, ies also in atories & in
				perform	es is compact i ns all the majo with following	or Functions of		
		-		•••••	ARD FEATURES			
27/07/2011 CTTIZEN SC Serial no. Ver. no. User ID Method 01: Stability Delay Heating Temp Swooff Stndby Compile Init. wt	tihrs + 15.02 PM /2011			 Data bata User Facil PS2 friend Pass their 4 use ISO/ temp repo Prog Alph meth Weig mea Facil Possi betw High back User mois 	can avail Stati ity of compile Key Board c dly operation. word protection mportant settir r ID configural GLP calibrat berature, also rt can be avai rammable cus a numeric ke nod name ght in assist surements ity to add any ble to configurabl tween 30° C to 1 ly flexible of configurabl ture determine Off, Auto key	vided in to 4 stic method of two method onnectivity r on prevent up ole ion report last succe lany time forr stomize print for stomize print for gure stand 75° C display for contrast e print inte adlock	or batch make i nautho for w ssfully m the m ormat s it ea to do bre act by te chan	n wise t very user rized use of eight and calibration hemory sy to enter accurate ual drying emperature ging font, during the
					Standard			
	MODEL	MB 54	MB 40	MB 50	MB 120	MB 200		
	Max capacity	50g	40g	50g	120g	200g	k	
	Precision of readout mass Precision of readout of moisture	0.1mg 0.0001%	1mg 0.001%	1mg 0.001%	1mg 0.001%	1mg 0.001%	- _'	Auto
	Repeatability (Sample 2g) (sd)	0.05%	0.1%	0.1%	0.1%	0.1%	_	
	Repeatability (Sample 10g) (sd)	0.02%	0.03%	0.03%	0.03%	0.03%	Ռո	
of	Display information	% moisture, %of c	· · · · · · · · · · · · · · · · · · ·		o, % Atro moisture, %	Atro Dry, %gm/ltr.	('')	Manual
	Range of temperature of drying Maximum time selection		Max to 1	75°C (option 999.9 min.	1 to 250°C)			
S	Set temperature			Interval 1°C	2		(\mathbf{v})	Timod
	Software of drying	S	itandard, Rapi		- ntle & High Temp).	Q	Timed
	Auto options-turn off				/T, User DEF % U,			
7 2	Menu language			English				User
йШ	Transfer of data			32 / USB / Eth				Def G/T
ecifications B SERIES	Pan Size (mm/inch) Display			250 mm / 3.8				
	Temperature of work		DUCKIIIO	Graphical LO				User Def
	Tare Rage			Full Capacit			1	%U/Time
	Voltage of power supply		110,	220-230V / 5			_	
	Net Wt. / Gross Wt.			7 kg / 8 kg			1	Intelligent
	Packing Size (mm/inch)	40	0 x 340 x 300 /	15.8" x 13.4"	' x 11.9" (L x W x	H)		

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SSH SERIES Industrial Precision Balances



GLP GLP

AIR

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PC RS 232 Citizen SSH Series is a Industrial Precision Balances with electromagnetic mechanism.It comes with following features for high performance accuracy.

STANDARD FEATURES

- Backlite LCD Display for easy view
- Standard RS 232 interface output
- Rust proof stainless steel platter
- Under hook weighing
- External Calibration
- Optional : External battery backup

MODEL	SSH 95	SSH 94	SSH 94H	SSH 93	SSH 92	SSH 91				
CAPACITY	15 kg	20 kg	25 kg	35 kg	50 kg	60 kg				
READABILITY	0.1 gm	0.1 gm	0.1 gm	0.1 gm	1 gm	1 gm				
REPEATABILITY (+/-)	0.1 gm	0.1 gm	0.1 gm	0.1 gm	1 gm	1 gm				
LINEARITY (+/-)	0.2 gm	0.2 gm	0.2 gm	0.2 gm	2 gm	2 gm				
PAN SIZE (MM/INCH)			400 x 300 /	15.7" x 11.8"						
RESPONSE TIME			2-39	sec.						
DISPLAY		Alpha Numerical LCD Backlite Display with A.E.P.								
CALIBRATION			Automati	c External						
UNITS OF MEASURE		g. mg, ct, G	N, mo, oz, dwt, T	1T, †1H, †1S, †1S, m	iom, Bat, MS					
TARE RANGE			Full Co	ipacity						
OPERATING TEMP.			15°C †	o 40°C						
PROTECTION		User	Administration &	Password Protec	tion					
APPLICATION MODES		PCS, % Weighir	ng, Animal / Dync	amic Weighing Cl	neck Weighing,					
	Autom	atic Density, Dete	ermination, Formu	lation Automatic	Statistic Calculo	itor etc.				
COMPLIANCE			ISO GLP / GMP /	USP Compliance						
POWER SUPPLY		A/C Adapter 230 V-115 V +/- 20% 50-60 Hz								



Citizen SSH Series is a Industrial Precision Balances with loadcell based. It comes with following features for high performance accuracy.

STANDARD FEATURES

- Backlite LCD Display for easy view
- Rust proof stainless steel platter
- External Calibration
- Built-in rechargeable battery for 45 hours of continuous use.
- Environmentally protected load cell.
- Rugged construction suitable for industrial environment.
- Low Battery Indication.

MODEL	SSH 91T	SSH 90T	SSH 89T	SSH 90B	SSH 90AB	SSH 87B	SSH 88B	SSH 89B	
CAPACITY	60 kg	100 kg	150 kg	100 kg	100 kg	200 kg	200 kg	500 kg	
READABILITY	1 gm	1 gm	1 gm	1 gm	2 gm	2 gm	5 gm	10 gm	
REPEATABILITY (+/-)	1 gm	1 gm	1 gm	1 gm	2 gm	2 gm	5 gm	10 gm	
LINEARITY (+/-)	2 gm	2 gm	2 gm	4 gm	6 gm	6 gm	10 gm	20 gm	
PAN SIZE (MM/INCH)	320	320 x 360 / 12.6" x 14.2" 400 x 500 / 15.7" x 19.7"							
RESPONSE TIME				2-3	sec.				
DISPLAY			Alpha Nu	merical LCD Bo	acklite Display	with A.E.P.			
CALIBRATION				Automati	c External				
UNITS OF MEASURE			g. mg, ct, GN,	mo, oz, dwt, T	1T, †1H, †1S, †1S	, mom, Bat, MS	5		
TARE RANGE		Full Capacity							
OPERATING TEMP.		5°C to 40°C							
POWER SUPPLY			A/C A	dapter 230 V-1	15 V, +/- 20% 5	0-60 Hz			

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CG-L SERIES Precision Balances

STANDARD FEATURES

- External calibration
- Easy to read LCD Display.
- Multifunction weighing units.
- RS 232 interface (Standard)
- Stabilization times 3-5 sec.
- ABS housing body with acrylic draft shield for 1 mg balances.
- Overload protection design.
- Adjusting Program (CAL). For quick setting of the balance's accuracy External adjusting weight required.
- Auto zero tracking, low battery for continues use.
- S.S. Weighing Pan, level indicator, Quickweighing accurate result.
- In built rechargeable battery for continues use.

Model	CG 103	CG 203	CG 302L	CG 602L	CG 2002L	CG 3001L	CG 6001L	CG 10000L
Capacity	100 gm	200 gm	300 gm	600 gm	2000 gm	3000 gm	6000 gm	10000 gm
Readability	0.001 gm	0.001 gm	0.01 gm	0.01 gm	0.01 gm	0.1 gm	0.1 gm	0.1 gm
Repeatability (+/-)	0.001 gm	0.001 gm	0.01 gm	0.01 gm	0.01 gm	0.1 gm	0.1 gm	0.1 gm
Linearity (+/-)	0.002 gm	0.002 gm	0.02 gm	0.02 gm	0.02 gm	0.2 gm	0.2 gm	0.2 gm
Pan Size (mm)	90 m	ım Ø	128 n	nm Ø	138 mm Ø	183 x 160 mm		ı



STANDARD FEATURES

- Compact and space saving.
- Large Stainless Steel Plate.
- Accurate to within ±3 division at full load.
- Overload Protection.
- Draft Shield for more accurate reading.
- Standard RS 232C Interface for data output.
- LED 7 Digit Display for easy viewing.
- Standard dual side or External Display.

CTG SERIES Precision Balances

- Auto Zero Tracking, Automatic External Calibration.
- 8 different weighing units such as g, ct, Tola etc.
- Piece Counting & Percentage Weighting Function.
- With leveling bubble and adjustable feet for the stability of scale.
- Inbuilt rechargeable battery for continues use.
- AC or DC Power supply ; Outfit AC/DC adapter.

Model	CTG 302	CTG 602	CTG 1202
Capacity	300 gm	600 gm	1200 gm
Readability	0.01 gm	0.01 gm	0.01 gm
Repeatability (sd)	± 0.03 gm	± 0.03 gm	± 0.03 gm
Linearity (+/-)	0.01 gm	0.01 gm	0.01 gm
Pan Size (mm)	118	3 Ø	145 x 125



MP SERIES Compact Scale

STANDARD FEATURES

- Compact and space saving.
- Rugged Design ABS plastic housing with efficient bench space usage.
- Simple to used.
- Auto External Calibration.
- Backlight LCD Display for easy viewing.
- Weighing unit gm, dwt, oz, ozt, available.
- Auto zero tracking.
- AC or DC Power supply : Outfit AC/DC adopter.
- Over Load Indication.
- Improved repeatability for better results.
- **GSM** Unit Available up to 300gm.

				• G3W UTILI AV	ulluble up to soug	111.				
Model	MP 300G	MP 300	MP 500	MP 1000	MP 3000	MP 5000				
Capacity	300 gm	300 gm	500 gm	1000 gm	3000 gm	5000 gm				
Accuracy	0.01 gm	0.01 gm	0.01 gm	0.1 gm	0.1 gm	1 gm				
Pan Size (mm/inch)	120 Ø / 4.7''Ø	110Ø/4.3"Ø	120Ø / 4.7''Ø	155x155 mm / 6.1"x6.1"	120x120 mm / 6.1"x6.1"	155x155 mm / 6.1"x6.1"				
Weighing Units		Gram, oz, dwt, ozt								
Tare Range		Full								

CTG SERIES Table Top Scale



IP6

CTG-S Series

Platform Size (mm)

400 x 400 / 15.7" x 15.7"

-: Optional :-



Flameproof Indicator

STANDARD FEATURES

- High resolution up to 30,000 counts.
- Easy to read (0.56") Bright RED LED / LCD display.
- Built-in rechargeable battery for continuous use.
- Piece counting function available.
- Environmentally protected Load Cell.
- Rust Proof Stainless Steel Platter.
- Auto Calibration.
- Stainless Steel Platter & Body. (CTG-S Series)
- Power AC 230V, + 10%, 50-60 Hz & with built-in rechargeable battery backup
- Flame Proof Indicator available for SS Table Top Scale certified by CIMFR, Dhanbad for use in Hazardous area.

Optional

RS 232C Interface

ABS Body Table Top Scale

	-					
MODEL	CTG 3	CTG 6	CTG 10	CTG 15	CTG 30	CTG 31
Capacity	3000 g	6 Kg	10 Kg	15 Kg	30 Kg	30 Kg
Readability	0.1 g	0.5 g	0.5 g	1 g	2 g	1 g
Pan Size (mm / inch)		290	mm x 240 m	im / 9.5" x 1	1.5"	

Model "CKG" Suffix stand for Piece Counting Scale Model "CTP" Suffix stand for Price Counting Scale

600 x 600 / 23.6" x 23.6"

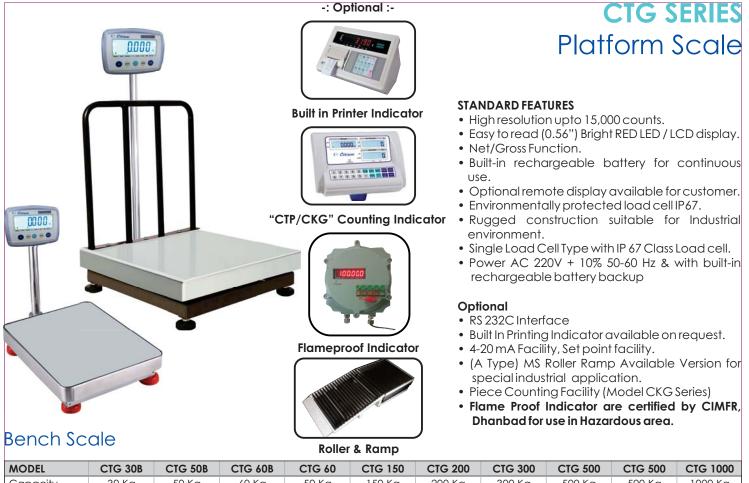
Stainless Steel Table Top Scale

MODEL	CTG 3S	CTG 6S	CTG 10S	CTG 15S	CTG 30S	CTG 31S
Capacity	3000 g	6 Kg	10 Kg	15 Kg	30 Kg	30 Kg
Readability	0.1 g	0.5 g	0.5 g	1 g	2 g	1 g
Pan Size (mm / inch)	250mm x 210 mm / 9.8" x 8.2"					

CTG-S SERIES 0.00 Stainless Steel Platform Scale -: Optional :-**STANDARD FEATURES** • High resolution up to 15,000 counts. IP67 • Easy to read (0.56") Bright LED / LCD display. 0.000 • Rugged construction suitable for Industrial application. • Optional remote display available for customer. Overload Protection Environmentally protected loadcells IP67 Class **SS** Indicator Stainless Steel Loadcells for washdown application.. • MOC: 304L / 316L • Stainless Steel Capsulated Loadcell for Complete washdown applications. • Auto-off Function for power saving. • Safety overload 150% of the scale capacity. • Dust Resistance Membranes key. **Built in Printer** • Power AC 220V + 10% 50-60 Hz & with built-in Indicator rechargeable battery backup Optional (A Type) SS Roller Available. Built In Printer Indicator **Capsulated Loadcell Roller & Ramp Flameproof Indicator** CTG 60S **CTG 100S CTG 200S** MODEL CTG 50S **CTG 100S CTG 150S**

• RS 232C Serial Interface port facility. • 4-20 mA, Set point facility, potential free output. Flame Proof Indicator are certified by CIMFR, Dhanbad for use in Hazardous area. **CTG 300S** CTG 500S Capacity 50 Kg 60 Kg 100 Kg 150 Kg 100 Kg 200 Kg 300 Kg 500 Kg Readability 5 g 5/10g 10 g 10 g 10 g 20 g 20 / 50 g 50 g

500 x 500 / 19.7" x 19.7"



Shipper Scale

STANDARD FEATURES

- Interface to Label / Dot Matrix Printers / Scanner.
- Weighing Scale / Data Processing Capacity.
- Report for Bill Summary / Weighments for day.
- 5000 Shipper Memory, Upgradeable to 20,000.
- Master Product, Customer, Brands.
- Dispense Mode / Shipper Mode Slips.
- Real Time Clock with Backup support.
- Check Weighing / Counting Accumulation modes.
- Fully programmable with front Panel.
- Labels support for Shipper with Barcoding.
- 500,000 Counts Internal / Up to 50,000 external.
- Bi Directional RS 232 / USB for data output.
- Export Data to Pen Drive Excel Format

[USV PHARMA	[
ITEM: PACK: LOT#: MFG:	DM/1232/132 COMBIFLAM 200mg 1C201 25C113 24.12.12 25.12.14	BAI I DI I LO I MFC I TARC
NET	: 1.120Kg : 0.920kg : 0.200kg	
SIGNATU DATE:	RE 22.12.12 TIME:16:40	

U:	SV PHA	RMA			
BALANCE					
I ITEM: COM		200m	g		
LOT#: 25C					
MFG : 25.	12.12 E	XP: 2	5.12.14		
TARGET WT					
10.50	10.7 10	.4	40 pcs		
SHIPPER	WT (kg)	QTY	TIME		
001	10.54				
002	10.50	40	13:21		
002 003	10.64	40	13:22		
004	10.50	40	13:22		
005	10.60	40	13:23		
006	10.55	_ 40	13:23		
6 BOXES/	63.33	kg /	240Nox		
DONE BY PRODUCTION QUALITY					

MODEL	CTG 60SS	CTG 150SS	CTG 200SS	CTG 300SS	CTG 500SS	
Capacity	50 Kg	150 Kg	200 Kg	300 Kg	500 Kg	
Readability	5 / 10 g	10 g	20 g	20 / 50 g	50 g	
Platform Size (mm)	500 x 500 / 19.7" x 19.7"	600 × 600 / 23 6" × 23 6"				

Dot Matrix Printer

Optional Complete SS platform available

					-					
MODEL	CTG 30B	CTG 50B	CTG 60B	CTG 60	CTG 150	CTG 200	CTG 300	CTG 500	CTG 500	CTG 1000
Capacity	30 Kg	50 Kg	60 Kg	50 Kg	150 Kg	200 Kg	300 Kg	500 Kg	500 Kg	1000 Kg
Readability	5 g	5 g	5/10g	5/10g	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	1000 x 1000

Model : CKG" Suffix stand for Piece Counting Scale

					СТ	G SERIES
			He	avy Dut	y Platfoi	rm Scale
Jltra Low	v Profile Platfo	rm Sca	e st	ANDARD FEATURES	5	
	IP67			High resolution up Stainless Steel Ultro adjustable of platf Optional : RS 232C Environmentally pr Four Load cell stru	a-low profile, 45-10 form for easy weig interface. rotected Load ce	ghing.
		SS Ir	ndicator	weighing. Ramp ON & Ramp or easy goods mo Built-in rechargeat Hermetically seale Hermetically seale	ovability. ble battery for co ed stainless steel c	ntinuous use. apsulated load
			in Printer dicator	cell to IP67 specific SS 304 Stainless Ste corrosive applicati Handles for conve Safety overload p Power AC 220V +	eel structure for W ion. (Available or nience of position rotection. 10% 50-60 Hz & wi	ashdown & Anti a S.S. Version only) hing and remova
S	S Platform Version			rechargeable bat p tional 4-20 mA Facility, Se	et point facility.	
	IP 67 SS			RS232C Serial Inter Stainless steel ir application. SS IP67 Indicator Built In Printing Ind	ndicator housing	g for washdown
	Capsulated Loadce	ell Flamepro	oof Indicator •	Flame Proof Indico Dhanbad for use in	ator are certified b	
	S Platform Version	MODEL Capacity Readability Platform Size (mm) Non-S	300 kg 50 g 600 x 600	CTG 500 4L UMS CTG 500 kg 100 g 1000 x 1000 1000 x 1000	1 Ton 2 To 200 g 500 1200 x st. "UMS" suffix stand	n 3 Ton g 1 Kg 1 200
	I				II Dlatfa	
	IP67		DUIY 4 L	load Ce		III SCOR
			• I	ANDARD FEATURES High resolution up Easy to read (0.56") Rugged constructi	to 15,000 counts.) Bright LED / LCD c	
		14	in Printer • / dicator • (MOC:304L/316L GMP,FDA Complic Stainless Steel Co Complete washdo	ance. apsulated IP67 d	
	SS Platform Version			Auto-off Function f Safety overload 15 Dust Resistance Me Power AC 220V rechargeable batt	or power saving. 10% of the scale co embranes key. + 10% 50-60 H	
		Flamepro		otional RS 232 Interface 4-20 mA Facility, Se With Ticket Printing SS IP67 Indicator Built In Printing Ind Flame Proof Indicc Dhanbad for use in	Facility. licator ator are certified k	
	MS Platform Version		P 67 SS ated Loadcell			
MODEL	CTG 1T4	CTG 1T4	CTG 2T4	CTG 3T4	CTG 5T4	CTG 5T4
Capacity	l Ton	1 Ton	2 Ton	3 Ton	5 Ton	5 Ton

MODEL			010 214			010 314	010 314
Capacity	1 Ton	1 Ton	2 Ton		3 Ton	5 Ton	5 Ton
Readability	100 g	200 g	500 g		1 Kg	1 Kg	1 Kg
Platform Size (mm/inch)	1000 x 1000 / 39.3" x 39.3"	1200 x 120	0 / 47.2" x 47.2"	&	1500 x 150	0 / 59"x 59"	2000 x 2000 / 78.7" x 78.7"

Model : CTGxxxS" Suffix stand for Fully SS Platform



CW SERIES Dynamic Checkweighers



- Designed for Control of packaged & Unpackaged Goods.
- Detecting Theory : Digital Weighing Sensor, EMFC Sensor (Optional)
- HACCP, CMP & FDA Approved
- Automatic Weighing Compensation & Zero Tracking
- Strong Stainless Steel Structure (S.S. 301) Mild Steel (Optional)
- Advance DSP Technology with Digital Signal Filter
- Based on 32 Bit High Speed CPU / Industrial PC Technology with Windows Embedded System (Optional)

- Graphical with Touch Screen Display
- Built-in Power Stabilizer
- Buzzer & Lamp Alarming with Rejectors
 - 100 Products Preset; Easy to Edit & Recall
 - Data Storage & Data Printout ready
 - 2000 Sorting Reports
 - RS-232 (Standard), USB & Ethernet Interface (Optional)
 - Easy ± Tolerance Control
 - Easy Interface in Existing Production Lines
- Adjustable Bolt Speed
 - Belt Speed : Upto 60 m/min. (180Hz)
 - Rapid Change of Belts
 - Anti-Vibration Legs with Height Adjustment
 - Bar Graphs,, Pie Diagrams & Statistical Data (Optional)
 - Database in MS Access & SQL Server (Optional)
 - Remote Monitoring of Live Operation
 (Optional)
 - Buzzer & Lamp Alarming with Rejectors
 - Control thru the Single Software for Metal Detectors, Dosing Systems, Signaling Devices, Conveyor Belts, Label / Inkjet Printers, Barcode Readers, Backup Devices, etc..... (Optional)

MODEL	CW 200	CW 1K	CW 3K	CW 10K	CW 40K		
Capacity (Max.)	200g	1000g	3000g	10kg	40kg		
Least Count	0.1 g	0.1 g	0.2 g	1 g	5 g		
Accuracy	±0.2g	±0.5g	±1.0g	±5g	±20g		
Reject Systems		Air Jet Reject / Flapper / Falling Drop / Roller with Pusher					
Working Temperature		10° to 40°C					



STANDARD FEATURES

- Designed for control of packaged & Unpackaged Goods
- Detecting Theory : Balance Coil & Electromagnetic Induction
- HACCP, GMP & FDA Approved
- Detects all Ferrous Metal & Non-Ferrous Metal, S.S., etc.
- Closed Magnetic Loop Detection Head

MDC SERIES Metal Detectors

- Detection Adjustment P: 1-100 Steps
- Strong Stainless Steel Structure (S.S. 304), Mild Steel (Optional)
- Advance DSP Technology with Digital Signal Filter
- Based on 32 Bit High speed CPU
- Improved product "Self-Learning' Functions
- Multi Function Operating System
- Graphical with Touch Screen Display
- Built-in Power Stabilizer
- 100 Products Preset; Easy to Edit & Recall
- Data Storage & Data Printout ready
- 1000 Detection Lage
- RS-232 (Standard), USB & Ethernet Interface (Optional)
- Easy Integration in Existing Production Lines
- Adjustable Belt Speed
- Belt Speed: 32 m/min. to 40m/min. (60Hz) (adjustable)
- Rejector Systems : Belt Stop, Air Jet, Pusher, Falling Drop

MODEL	MDC 3030	MDC 3535	MDC 4040	MDC 5050	MDC 6060
Tunnel Width (mm)	300	350	400	500	600
Tunnel Height (mm)	80/100/120/150/180	100/120/150/180/200	100/120/150/180/200/250	120/150/180/200/250/300	150/200/250/300/350
Sensibility (Ø, mm) Ferrous	0.4/0.4/0.6/0.8/0.8	0.6/0.8/0.8/0.8/1.0	0.6/0.8/1.0/1.0/1.3/1.6	1.0/1.0/1.3/1.3/1.6/1.8	1.0/1.3/1.6/1.8/2.3
Sensibility (Ø, mm) Non-Ferrous	0.6/0.6/0.8/1.0/1.0	0.8/1.0/1.0/1.0/1.2	0.8/1.0/1.2/1.2/1.5/1.8	1.2/1.2/1.5/1.5/1.8/2.0	1.2/1.5/1.8/2.0/2.5
Sensibility (Ø, mm) S.S. 304	1.0/1.0/1.3/1.3/1.6	1.0/1.0/1.3/1.5/1.8	1.3/1.3/1.6/1.8/2.0/2.3	1.6/1.8/1.8/2.0/2.3/2.8	1.8/2.3/2.3/2.8/3.3

ABORATORY CALIBRATION WEIGHTS E1 / E2 / F1 / F2 / M1 Class







- According to OIML R111-1-Standards.
- Outstanding Cost Performance Ratio.
- Quick Handling Time.
- Modern Calibration Methods Allow Exact Calibration.
- Results and Quick Processing Times.
- Calibrated by NPL / NABL / RRSL / Cofrac / NVLAP / Ukas (USA) Accredited.
- Complete Service Ranging from 1 mg to 50kg.
- E1 to M1 Class Weights with or without Certification.
- Higher Accuracy Metrological Weights.
- Material density of the weights is 8000kg / m³, air density is 1.2kg / m³ and measuring temperature is 20°C.

E1 Stainless Steel Weights (Single)

			• •
Part No.	Mass Wt.	Tolerance ±	Certificate
106-01	1 mg	0.003 mg	100-001
106-02	2 mg	0.003 mg	100-002
106-03	5 mg	0.003 mg	100-003
106-04	10 mg	0.003 mg	100-004
106-05	20 mg	0.003 mg	100-005
106-06	50 mg	0.004 mg	100-006
106-07	100 mg	0.005 mg	100-007
106-08	200 mg	0.006 mg	100-008
106-09	500 mg	0.008 mg	100-009
107-01	1 g	0.010 mg	100-010
107-02	2 g	0.012 mg	100-011
107-03	5 g	0.016 mg	100-012
107-04	10 g	0.020 mg	100-013
107-05	20 g	0.025 mg	100-014
107-06	50 g	0.03 mg	100-015
107-07	100 g	0.05 mg	100-016
107-08	200 g	0.10 mg	100-017
107-09	500 g	0.25 mg	100-018
107-10	1 kg	0.5 mg	100-019
107-11	2 kg	1.0 mg	100-020
107-12	5 kg	2.5 mg	100-021

E2 Stainless Steel Weights (Single)

Part No.	Mass Wt.	Tolerance ±	Certificate
117-01	lg	0.03 mg	100-031
117-02	2 g	0.04 mg	100-032
117-03	5 g	0.05 mg	100-033
117-04	10 g	0.06 mg	100-034
117-05	20 g	0.08 mg	100-035
117-06	50 g	0.10 mg	100-036
117-07	100 g	0.16 mg	100-037
117-08	200 g	0.3 mg	100-038
117-09	500 g	0.8 mg	100-039
117-10	1 kg	1.6 mg	100-040
117-11	2 kg	3.0 mg	100-041
117-12	5 kg	8.0 mg	100-042
117-13	10 kg	16 mg	100-43
117-14	20 kg	30 mg	100-44
117-15	50 kg	80 mg	100-45

F1 Stainless Steel Weights (Single)

Part No.	Mass Wt.	Tolerance ±	Certificate
127-07	100 g	0.5 mg	100-061
127-08	200 g	1.0 mg	100-062
127-09	500 g	2.5 mg	100-063
127-10	1 kg	5.0 mg	100-064
127-11	2 kg	10 mg	100-065
127-12	5 kg	25 mg	100-066
127-13	10 kg	50 mg	100-067
127-14	20 kg	100 mg	100-068
127-15	50 kg	250 mg	100-069







Part No.	Mass Wt.	Tolerance ±	Certificate
137-07	100 g	1.6 mg	100-085
137-08	200 g	3.0 mg	100-086
137-09	500 g	8.0 mg	100-087
137-10	1 kg	16 mg	100-088
137-11	2 kg	30 mg	100-089
137-12	5 kg	80 mg	100-090
137-13	10 kg	160 mg	100-091
137-14	20 kg	300 mg	100-092
137-15	50 kg	800 mg	100-093

F2 Stainless Steel Weights (Single)

M1 Stainless Steel Weights (Single)

Part No.	Mass Wt.	Tolerance ±	Certificate
147-10	1 kg	16 mg	100-094
147-11	2 kg	30 mg	100-095
147-12	5 kg	80 mg	100-096
147-13	10 kg	160 mg	100-097
147-14	20 kg	300 mg	100-098
147-15	50 kg	800 mg	100-099

E1 Stainless Steel Weights (Sets)

	•	. ,
Part No.	Mass Wt.	Certificate
103-01	1mg - 500mg	100-501
103-03	1mg - 100gm	100-503
103-04	1mg - 200gm	100-504
103-05	1mg - 500gm	100-505
104-08	1g - 5kg	100-516

E2 Stainless Steel Weights (Sets)

Part No.	Mass Wt.	Certificate
113-01	1mg - 500mg	100-518
113-03	1mg - 100gm	100-520
113-04	1mg - 200gm	100-521
113-05	1mg - 500gm	100-522
114-08	1g - 5kg	100-533

F1 Stainless Steel Weights (Sets)

Part No.	Mass Wt.	Certificate
123-01	1mg - 500mg	100-535
123-03	1mg - 100gm	100-537
123-04	1mg - 200gm	100-538
123-05	1mg - 500gm	100-539
124-08	1g - 5kg	100-550

F2 Stainless Steel Weights (Sets)

Part No.	Mass Wt.	Certificate
133-01	1mg - 500mg	100-552
133-03	1mg - 100gm	100-554
133-04	1mg - 200gm	100-555
133-05	1mg - 500gm	100-556
134-08	1a - 5ka	100-567



CPR 02 SERIES Statistical Data Printer

Date & Time Password Protection

CITIZEN STATISTICAL PRINTER is ideal for routine laboratory application with following features.

ISO/GLP compliant recording capability for printouts.

GLP: Good Laboratory Practice Password-protected menu lock.

We have the parameter pertaining to the ambient weighing conditions printed before (GLP header) and after (GLP footer) the values of a weighing series. These parameters include:

GLP header :

- -Date
- Time at beginning measurement
- -Balance manufacturer
- Balance model
- Balance serial number
- Software version number

- Identification number of the current sampling operation

GLP Footer:

- -Date
- Time at end of measurement
- Field for operator signature

- ID designations are configured as follows setup: Printout: Identification codes.

- ISO/GLP compliant recording capability for printouts.

Universal Interface can connect to Citizen & any other brand

Model	CPR 02
Features	Date & Time (Password Protection), Statistic & totalization function
Printer	Dot Matrix Pinter
No of Characters per line	24 Character
Printing Speed	Faster than 1 line per second
Paper Type	Normal Paper Roll, Wood Free Paper
Paper size	Width : 57.5 ± 0.5mm.
Power Supply	AC Adapter, 100 - 270V AC, 50Hz - 60Hz
Interface	RS 232C
Bound Rate (Selectable)	1200, 2400, 4800, 9600, 19200
Parity (Selectable)	None, Space, Odd, Even
Data Bit	8 Bit
Stop Bit	1
Working Temperature	5°C to 50°C, relative humidity : 10% - 80% (no condensation)
Dimensions (mm/inch) (LxWxH)	210 x 135 x 88.5 / 8.30" x 5.30" x 3.50
Net Weight / Gross weight	2.00 kgs / 2.5 kgs
Packing Size (mm/inch)	270 x 200 x 175 / 10.62" x 7.8" x 6.90"



17

PRINT FORMATS

		G
01:	50.000 9	
02:	100.000 9	22-Ma
03:	150.000 9	Model
04:	200.001 9	Ser. Ver. ID
n	4	Calik
x	125.0003 9	
5	64.5581 9	W-ID
srel	51.63 %	Tempe
Σx	500.001 9	Set Diff.
min	50.000 9	2111
max	200.001 9	
Diff	150.001 9	Inter Diff.
25-Mar-	2810 3:33:46	22-Ma Name

Citizon

CN N/R Q

22-Mar-12	11:13AM	
Citizer	1	
Model	CX 220	
Ser. no.	9021107	
Ver. no.	r0.1.04	
ID	1234567	
Calibration:	Internal	
W-ID		
Temperature	29.378'C	
Set +	200.0000g	
Diff.	-0.0031g	
Internal Cal D	one	
Diff.	0.000g	
22-Mar-12	11:13AM	
Name :		



CUB 10 ~ 30



Model	CUB - 2.5	CUB - 5
Capacity	2.5 Ltr.	5 Ltr.
Input	110/220VAC, 50/60Hz	
Frequency	40KHz Ultrason	ic power 120W
Adjustable Time	1 to 99 minutes	1 to 99 minutes
Adjustable Temperature	20°C to 80°C	20°C to 80°C
Heater Power	50 W	120W
Tank Size (mm)	150 x 137 x 150	240 x 140 x 150
Packing Size (mm)	250 x 200 x 250	350 x 250 x 330
Gross Weight	4.2 kg	5 kg

CUB SERIES Ultrasonic Cleaner/Bath

CITIZEN Ultrasonic units are used in Industrial and Analytical Laboratories. With their high power, optimized parameter settings and strict parameter monitoring and assisted by a large range of useful accessories the ultrasonic units guarantee safe and reliable results for the multifaceted laboratory applications. The **CITIZEN** Laboratory equipment is complete with a full programme of cleaning chemicals developed and produced in our own laboratory.

Application :

Laboratory

Get consistent cleaning with every cycle. Our Ultrasonic baths throughly remove blood, protein, and contaminants. Use it for everything from glassware to lenses to instruments and precision components.

Beyond Cleaning

CITIZEN ultrasonic cleaners are extremely versatile. They can also be used in laboratory applications for cell separation, mixing emulsifying, sample preparation and degassing of liquids.

Electronics

Get a safe, unwavering cleaning for even the most delicate of components. CITIZEN baths completely remove flux and contaminants from such precision parts as PC boards, SMDs, quarts crystals, capacitors, and many others.

Jewellery

See the difference and performance of CITIZEN ultrasonic baths. Thoroughly clean and restore brilliance to watches, chains and charms, settings, coins, fine

Industrial

The demands of light industrial workflow require an ultrasonic bath that can stand up to the challenge. Our baths are perfect for deep cleaning to remove dirt, grease, waxes, and oils from light industrial parts and components of all kinds - including steel, light & nonferrous metals, plastic and glass. jewellery and clockworks of every type.

Optional : Degas Function available on request.





Dental Cli





CUB - 10 Model CUB - 20 CUB - 22 CUB - 30 Capacity 10 Ltr. 20 Ltr. 30 Ltr. 22 Ltr. Input 110/220VAC, 50/60Hz Frequency 40KHz Ultrasonic power 120W 1 to 99 minutes 1 to 99 minutes 1 to 99 minutes 1 to 99 minutes Adjustable Time Adjustable Temperature 20°C to 80°C 35°C to 80°C 35°C to 80°C 35°C to 80°C Heater Power 240W 600W 600W 600W Tank Size (mm) 300 x 240 x 150 500 x 300 x 150 500 x 300 x 150 500 x 300 x 200 440 x 405 x 390 Packing Size (mm) 640 x 450 x 390 640 x 450 x 390 640 x 450 x 390 Gross Weight 11 kg 21 kg 21 kg 31 kg



Analytical Process Lab Instruments



Electronic Densimeter



Visible Spectrometer



UV/VIS Spectrometer



Rotary Evaporator



Milk Analyzer



Digital ABBE Refractometer



Tablet Hardness Tester





Colorimeter



Automatic Polarimeter



Water Purification System





Melting-Point Apparatus





ICE Flake Maker



PCR-I Thermal Cycler



Digital Magnetic Hotplate Stirrer



Coating Thickness XRF Analyzer

-: Optional Accessories :-



Authorized Distributor

MADHU CHEMICAL COMPANY

Sales off. Room No. 19, 1 st Floor, Vasani Centre,28, Babu genu road, New Hanuman Iane, MUMBAI–400002 TEL. 022-22002437 | E-mail : mpmadhu@gmail.com

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