SCALE-TEC

MEASUREMENT WITH CONFIDENCE

SCALETEC MECHATRONICS PVT. LTD.

SYMBOLS

SCALE-TEC
MEASUREMENT WITH CONFIDENCE

Symbol	Description
EM-FR	**Electromagnetic Force Restoration:** Coil in a perman-ent magnet or Monolithic block for the most accurate weighings.
GRAPHIC	**Graphic Display:** Text/graphical LCD dot matrix display with back light.
IN - CAL	**Internal Calibration:** Automatic Calibration with in-built weight with time and Temperature adjust.
CLOCK	**Date & Time:** Balance shows current date and time.
RS-232	**Rs232 Data Interface:** To connect the balance to printer, PC, peripheral devices.
UNITS	**Measuring Units:** Select the measuring unit that balance will use to display weight.
% WEIGH	**Percentual Weighing:** Calculates the weight of a sample as a percentage from a reference (100%).
DENSITY	**Density Determination:** Accurately determines density of a solid object or a liquid.
ACCU	**Totalisation:** Balance has internal accumulator or can be used with optional external accumulator.
ANIMAL	**Animal Weighing:** Accurate readings under unstable conditions such moving laboratory animals.
GLP	**Glp Setup:** Allows storing identification data of balance, project and user. Date and Time.
LIMITS	**Checkweighing:** Upper and lower limits can be set individually, for dosing and portioning.
BATTERY	**Battery Operating:** Balance can work using batteries.

Symbol	Description
LC-HR	**High Resolution Load Cell:** Strain gauge measure the deformation as change in electrical resistance.
LCD	**LCD Display:** Standard segment digit LCD display with backlight.
EX-CAL	**External Calibration:** Calibration with the external mass.
STAT	**Statistics:** Shows Min, Max, Sum, Standard deviation, Average.
USB	**USB:** To connect the balance to printer, PC, peripheral devices such as PenDrive.
PCS	**Piececounting:** Function to count identical items, reference quantities are selectable.
ADD	**Totalization:** Measure cumulative weight of multiple items. Shows total and current weight.
UNDER	**Under Hook Weighing:** A support with hook can be loaded on the underside of the balance.
RECIPE	**Formulation:** Allows setting recipes with name and tolerances for each ingredient.
MODES	**Drying Modes:** Different temperature profiles are available for drying process.
DATABASE	**Database:** internal database to store data and drying methods.
PEAK	**Max Load Peak hold:** Retains the peak value in a series of consecutive weights.
PASSWORD	**Password:** User profile can be password protected.

SAB-DR SERIES

SCALE-TEC
MEASUREMENT WITH CONFIDENCE

SEMI-MICRO ANALYTICAL BALANCE

Features

* The New SAB series represents a new standard level for analytical balances. They feature a new, readable LCD display a clearer presentation of the weighing result.

* Besides, the display has a new text information line allowing to show additional messages and data, e.g. product name or tare value.

* Automatic internal adjustment, which takes into consideration temperature changes and time flow.

* Several communication interfaces: 2 x RS 232, type A USB, type B USB and optional WiFi.

* The Informrmation system is based on 5 databases:
  - up to 10 users,
  - up to 1000 products,
  - up to 1000 weighments,
  - up to 10 tares,
  - ALIBI memory up to 100 000 weighments.

IN - CAL

EM-FR | GRAPHIC | GLP | UNDER | DENSITY | UNITS | PCS | ADD | PASSWORD

RS-232 | USB | CLOCK | GRAPH | ANIMAL | STAT | RECIPE | ACCU | DATABASE | LIMITS

MODEL	CAPACITY (gm)	RESOLUTION (mg)	PAN (mm)	REPEATABILITY (mg)	LINEARITY (mg)	RESPONSE TIME (Sec.)
Auto Internal Calibration						
SAB 265DR	60 / 220	0.01/0.1	⊘ 80	± 0.03/0.1	± 0.07/0.2	5~8
SAB 285DR	80 / 220	0.01/.0.1	⊘ 80	± 0.05/0.1	± 0.07/0.2	5~8
SAB 205DR	100/220	0.01/0.1	⊘ 80	± 0.08/0.1	± 0.07/0.2	5~8
SAB 414S	410	0.1	⊘ 80	± 0.02	± 0.4	5~8

* Repeatability is expressed as a standard deviation from 10 weighing cycles.
* Non-condensing conditions.

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Optional Accessories

• Density Kit • Data Printer • Software • Test Weights

SAB CLASSIC IN-CAL

SCALE-TEC
MEASUREMENT WITH CONFIDENCE

BASIC ANALYTICAL BALANCE - INCAL

Features

The New Price & Best in Performance Class Analytical Balance.

* Built-in motorized calibration weight, ensures the highest accuracy at the press of a key.

* Support: Weighing, Counting, Percentage, Animal Weighing. Optional: Density Determination

* 18 standard units, with all-character mark.

* Strong anti-shaking monolithic electromagnetic for highest accuracy.

* Standard 1500V isolation USB port, ease to connect with PC.

* User selectable filter, stability indicator and auto-zero tracking for use in difficult environment.

* Large, sturdy and nearly frameless, all-glass draft shield chamber for optimal viewing of weighing chamber.

* Backlit, high-contrast display with 15 mm digits; exceptionally easy to read under any room lighting conditions.

IN - CAL

EM-FR | DENSITY | ANIMAL | PCS | UNITS | UNDER | LCD | RS-232 | USB

Get extensive high resolution even when you weigh high capacity with latest Monolithic Block Technology.

MODEL	CAPACITY (gm)	RESOLUTION (gm)	PAN (mm)	REPEATABILITY (gm)	LINEARITY (mg)	RESPONSE TIME (Sec.)
Internal Calibration						
SAB 124CL IN CAL	120	0.0001	⊘ 90	+ 0.0001	+ 0.0002	< 5
SAB 224CL IN CAL	220	0.0001	⊘ 90	+ 0.0001	+ 0.0002	< 5

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Optional Accessories

• Density Kit • Data Printer • Software • Test Weights

SCALE-TEC
MEASUREMENT WITH CONFIDENCE

SAB CLASSIC

ANALYTICAL & PRECISION BALANCE

EX-CAL

EM-FR | DENSITY | ANIMAL | PCS | UNITS | UNDER | LCD | RS-232 | USB

Get extensive high resolution even when you weigh high capacity with latest Monolithic Block Technology.

Features

The New Price & Best in Performance Class Analytical & Precision Balance.

✳ Single Touch Key External calibration, ensures the highest accuracy at the press of a key.

✳ Support: Weighing, Counting, Percentage, Animal Weighing. Optional: Density Determination

✳ 18 standard units, with all-character mark.

✳ Strong anti-shaking monolithic electromagnetic for highest accuracy.

✳ Standard 1500V isolation USB port, ease to connect with PC.

✳ User selectable filter, stability indicator and auto-zero tracking for use in difficult environment.

✳ Large, sturdy and nearly frameless, all-glass draft shield chamber for optimal viewing of weighing chamber.

✳ The draft shield doors and all stainless steel parts of the weighing chamber base are easy to remove in just a few steps for cleaning.

✳ Backlit, high-contrast display with 15 mm digits; exceptionally easy to read under any room lighting conditions.

MODEL	CAPACITY (gm)	RESOLUTION (gm)	PAN (mm)	REPEATABILITY (gm)	LINEARITY (gm)	RESPONSE TIME (Sec.)
External Calibration						
SAB 124CL	120	0.0001	⊘ 90	± 0.0001	± 0.0002	< 3
SAB 224CL	220	0.0001	⊘ 90	± 0.0001	± 0.0002	< 3
SAB 223CL	220	0.001	⊘ 110	± 0.001	± 0.0015	< 3
SAB 323CL	320	0.001	⊘ 110	± 0.001	± 0.0015	< 3
SAB 423CL	420	0.001	⊘ 110	± 0.001	± 0.0015	< 3
SAB 523CL	520	0.001	⊘ 110	± 0.002	± 0.002	< 3
SAB 623CL	620	0.001	⊘ 110	± 0.002	± 0.002	< 3

Optional Accessories

• Density Kit • Data Printer • Software • Test Weights

ALN SERIES

SCALE-TEC
MEASUREMENT WITH CONFIDENCE

PROFESSIONAL ANALYTICAL BALANCE

///AXIS
Manufactured in Polland

Features

* Complete automatic time & temperature calibration with GMP-GLP record print out.

* Brilliant backlit high resolution graphics display with simple navigation windows and menus allows for balance operation easy and quick.

* User selectable filter, stability indicator and auto-zero tracking for use in difficult environment.

* Procell software allows for direct transfer of weighing results to excel spreadsheet.

* Weigh below hook for below balance weighing with in-built density application software.

* With a die-cast metal housing and stainless steel pan, and balance is built to withstand rugged every day Weighing.

* Application : Parts Counting, Animal Weighing, Check-Weighing, Display Hold, Percent Weighing, Totalizing, SQC Quality Control, Filling, Density.

* OPTION : ALIBI Memory.
  - Upto 5 Users
  - Upto 100 Products
  - Upto 10000 Weighments

IN - CAL

Icons
EM-FR GRAPHIC GLP UNDER DENSITY UNITS PCS ADD
RS-232 USB CLOCK GRAPH ANIMAL STAT RECIPE ACCU

MODEL	CAPACITY (gm)	RESOLUTION (gm)	PAN (mm)	REPEATABILITY (gm)	LINEARITY (gm)	RESPONSE TIME (Sec.)
Auto Internal Calibration						
ALN 60G	60	0.0001	⊘ 90	± 0.0001	± 0.0002	< 5
ALN 120G	120	0.0001	⊘ 90	± 0.0001	± 0.0002	< 5
ALN 220G	220	0.0001	⊘ 90	± 0.0001	± 0.0002	< 5
ALN 320G	320	0.0001	⊘ 90	± 0.0001	± 0.0002	< 5

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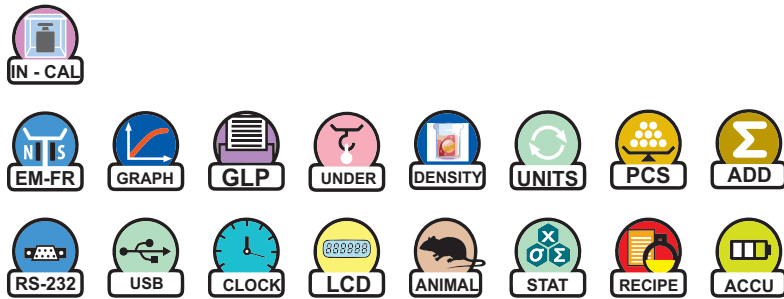Email: sales@scale-tec.in
Url: www.scale-tec.in

Optional Accessories

• Density Kit • Data Printer • Software • Test Weights

SCALE-TEC
MEASUREMENT WITH CONFIDENCE

ATN SERIES

ANALYTICAL BALANCE - AUTO-CAL

//AXIS
Manufactured in Polland

Features

* Complete automatic time & temperature calibration with GMP-GLP record printout.

* Brilliant backlit LCD display with simple navigation windows and menu to guide you through balance functions.

* User selectable filter, stability indicator and auto-zero tracking for use in difficult environment.

* Procell software allows for direct transfer of weighing results to excel spreadsheet.

* Weigh below hook for below weighing application with in-built density measurement software.

* With a die-cast metal base and stainless steel pan, and balance is built to withstand rugged every day Weighing.

* Application : Parts Counting, Animal Weighing, Check-Weighing, Display Hold, Percent Weighing, Totalizing, SQC Quality Control.

* RS232C and USB connector to connect with PC

* Optional LAN / wi-fi

IN - CAL

EM-FR | GRAPH | GLP | UNDER | DENSITY | UNITS | PCS | ADD

RS-232 | USB | CLOCK | LCD | ANIMAL | STAT | RECIPE | ACCU

MODEL	CAPACITY (gm)	RESOLUTION (gm)	PAN (mm)	REPEATABILITY (gm)	LINEARITY (gm)	RESPONSE TIME (Sec.)
Auto-Internal Calibration						
ATN 120	120	0.0001	⊘ 90	$\pm$ 0.0001	$\pm$ 0.0002	< 3
ATN 220	220	0.0001	⊘ 90	$\pm$ 0.0001	$\pm$ 0.0002	< 3

Optional Accessories

• Density Kit • Data Printer • Software • Test Weights

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ATS-BTS SERIES

SCALE-TEC
MEASUREMENT WITH CONFIDENCE

MOISTURE ANALYZER

//AXIS

Manufactured in Polland

ATS **EM-FR**   BTS **LC-HR**

DATABASE | UNITS | MODES | GRAPHIC | GLP | UNDER | RS-232 | USB | CLOCK | GRAPH

Features

* Halogen heaters

* Drying temperature up to 160°C

* Graphical display with backlight & Drying chart displaying.

* Convenient and Easy text menu.

* Reports edition with PC keyboard.

* Storing 20 drying programs.

* Equipped with USB, RS232, PS2 Interface.

* Free PC Software.

* Multiple profiles and analysis modes.

* Drying Report Printing with GLP/GMP.

* Automatic self test at Power up.

* Available ways to evaluate humidity:
  - in proportion to initial weight
  - in proportion to dried weight
  - percentage of dried weight

* Drying mode:
  - time
  - short (automatic)

* Drying mode:
  - Standard
  - Fast
  - Slow
  - Step

MODEL	ATS 60	ATS 120	ATS 210	BTS 110D	BTS 110
CAPACITY [gm]	60	120	210	110	110
RESOLUTION [gm]	0.001	0.001	0.001	0.005	0.01
MOISTURE RESOLUTION	0.01 %	0.01 %	0.01 %	0.05 %	0.1 %
PAN SIZE [mm]	⌀ 90				
HUMIDITY MEASURE REPEATABILITY	± 0.1% (sample 2g) ± 0,04% (sample 5g)			± 0,5% (sample 2g) ± 0,2% (sample 5g)	
HUMIDITY READOUT PRECISION	1% < 0.5g sample, 0.1% < 5g sample, 0.01% > 5g sample			0,1% (sample > 10g) 1% (sample < 10g)	

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Optional Accessories

• Calibration Thermometer • Printer • Software • Test Weights

SCALE-TEC
MEASUREMENT WITH CONFIDENCE

AGS SERIES

MOISTURE ANALYZER

//AXIS
Manufactured in Polland

EM-FR

DATABASE | UNITS | MODES | GRAPHIC | GLP | UNDER | RS-232 | USB | CLOCK | GRAPH

MODEL	AGS 60	AGS 120	AGS 210	AGS 60 T250	AGS 120 T250	AGS 120 IR	AGS 210 IR
CAPACITY [gm]	60	120	210	60	120	120	210
RESOLUTION [gm]	0.001	0.001	0.001	0.001	0.001	0.001	0.001
MOISTURE RESOLUTION	0.01 %	0.01 %	0.01 %	0.01 %	0.01 %	0.01 %	0.01 %
TEMPERATURE	160°C			250°C		160°C	
HEATING TECHNOLOGY	HALOGEN					INFRARED	
PAN SIZE [mm]	⌀ 90						
HUMIDITY MEASURE REPEATABILITY	± 0.1% (sample 2g) / ± 0,04% (sample 5g)						
HUMIDITY READOUT PRECISION	1% < 0.5g sample / 0.1% < 5g sample / 0.01% > 5g sample						

Features

* Halogen heaters (Option: Infrared Type)

* Drying temperature up to 160°C (Option 250°C)

* Robust die-cast metal housing.

* Graphical display with backlight & Drying chart displaying.

* Convenient and Easy text menu.

* Reports edition with PC keyboard.

* Storing 20 drying programs.

* Equipped with USB, RS232, PS2 Interface.

* Free PC Software.

* Multiple profiles and analysis modes.

* Drying Report Printing with GLP/GMP.

* Available ways to evaluate humidity:
  - in proportion to initial weight
  - in proportion to dried weight
  - percentage of dried weight

* Drying mode:
  - time
  - short (automatic)

Optional Accessories

• Calibration Thermometer • Printer • Software • Test Weights

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AKA SERIES

SCALE-TEC
MEASUREMENT WITH CONFIDENCE

PROFESSIONAL PRECISION BALANCE

//AXIS

Manufactured in Polland

Features

∗ Complete automatic time & temperature calibration with GMP-GLP record printout.

∗ Brilliant backlit high resolution graphics display with simple navigation windows and menus allows for balance operation easy and quick.

∗ User selectable filter, stability indicator and auto-zero tracking for use in difficult environment.

∗ Procell software allows for direct transfer of weighing results to excel spreadsheet.

∗ Weigh below hook for below weighing application with in-built density measurement software.

∗ With a die-cast metal housing and stainless steel pan, and balance is built to withstand rugged every day Weighing.

∗ Application : Parts Counting, Animal Weighing, Check-Weighing, Display Hold, Percent Weighing, Totalizing, SQC Quality Control.

IN - CAL

EM-FR | GRAPHIC | GLP | UNDER | DENSITY | UNITS | PCS | ADD

RS-232 | USB | CLOCK | GRAPH | ANIMAL | STAT | RECIPE | ACCU

MODEL	CAPACITY (gm)	RESOLUTION (gm)	PAN (mm)	REPEATABILITY (gm)	LINEARITY (gm)	RESPONSE TIME (Sec.)
Auto Internal Calibration						
AKA 320G	320	0.001	⌀ 115	± 0.001	± 0.002	< 3
AKA 520G	520	0.001	⌀ 115	± 0.001	± 0.002	< 3
AKA 1020G	1020	0.001	⌀ 115	± 0.001	± 0.002	< 3
AKA 3200G	3200	0.01	165x165	± 0.01	± 0.02	< 3
AKA 4200G	4200	0.01	165x165	± 0.01	± 0.02	< 3
AKA 5200G	5200	0.01	165x165	± 0.01	± 0.02	< 3

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Optional Accessories

• Density Kit • Data Printer • Software • Test Weights

SCALE-TEC

MEASUREMENT WITH CONFIDENCE

ATA / ATZ SERIES

PRECISION BALANCE - AUTO-CAL

//AXIS
Manufactured in Polland

IN - CAL

EM-FR | GRAPH | GLP | UNDER | DENSITY | UNITS | PCS | ADD

RS-232 | USB | CLOCK | LCD | ANIMAL | STAT | RECIPE | ACCU

MODEL	CAPACITY (gm)	RESOLUTION (gm)	PAN (mm)	REPEATABILITY (gm)	LINEARITY (gm)	RESPONSE TIME (Sec.)
Auto-Internal Calibration						
ATA 320	320	0.001	⌀ 115	± 0.001	± 0.002	< 3
ATA 520	520	0.001	⌀ 115	± 0.001	± 0.002	< 3
ATA 620	620	0.001	⌀ 115	± 0.001	± 0.002	< 3
ATA 3200	3200	0.01	⌀ 150	± 0.01	± 0.02	< 3
External Calibration						
ATZ 320	320	0.001	⌀ 115	± 0.001	± 0.002	< 3
ATZ 520	520	0.001	⌀ 115	± 0.001	± 0.002	< 3
ATZ 3200	3200	0.01	⌀ 150	± 0.01	± 0.02	< 3

Features

✴ ATA Series Complete automatic time & temperature calibration with GMP-GLP record printout.

✴ Brilliant backlit LCD display with simple navigation windows and menus to guide you through balance functions.

✴ Use selectable filter, stability indicator and zero tracking for use in difficult environments.

✴ RS232C and USB connector to connect with PC

✴ Optional LAN / WI-FI connection allows to extend communication.

✴ Weigh-below hook for below weighing applications with in-built density measurement software.

✴ All the scales have a rich set of special functions: counting of identical pieces, calculation of mass changes in percentage, recipe making, SQC Quality Control, Animal Weighing, change of measurement unit (ct, lb, oz, ozt, gr, dwt), Totalisation.

Optional Accessories

• Density Kit • Data Printer • Software • Test Weights

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SAB ECONOMY SERIES

SCALE-TEC
MEASUREMENT WITH CONFIDENCE

BASIC PRECISION BALANCE

Features

* One Touch Key Calibration & Easy User Linearity Function.

* Stainless Steel Weighing Pan, Shield and Base Plate easy to remove for cleaning.

* Optional : RS-232 Standard, USB Interface.

SAB-E Series
* In-built rechage battery back up.

* Different Weighing Units : gm, ct, gsm, mg, lb, etc.

* Application : Piece Counting, Percentage Weighing, Totalizing, etc.

* Bright and Large & Clear LCD Display with Back light.

* Digital Filtering for batter stability result on every enviornment.

SAB-L Series
* In-Built recharge battery back up.

* Four Level Anti-Shock Adjustable Function.

* Different Weighing Units : gm, ct, gsm.

* Application : Piece Counting.
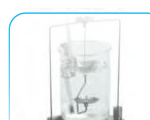
* Bright LED Seven Segment 0.56" Display.

SAB-L

SAB-E

LC-HR   EX-CAL   UNITS   % WEIGH   PCS   BATTERY

MODEL	CAPACITY (gm)	RESOLUTION (gm)	PAN (MM)	REPEATABILITY (gm)	LINEARITY (gm)	RESPONSE TIME (Sec.)
External Calibration						
SAB 63E	60	0.001	⌀ 80	$\pm$ 0.002	$\pm$ 0.002	< 3
SAB 123E	120	0.001	⌀ 80	$\pm$ 0.002	$\pm$ 0.002	< 3
SAB 223E	220	0.001	⌀ 80	$\pm$ 0.002	$\pm$ 0.002	< 3
SAB 303E	300	0.001	⌀ 80	$\pm$ 0.002	$\pm$ 0.002	< 5
SAB 63-L	60	0.001	⌀ 80	$\pm$ 0.002	$\pm$ 0.002	< 3
SAB 103-L	110	0.001	⌀ 80	$\pm$ 0.002	$\pm$ 0.002	< 3
SAB 203-L	210	0.001	⌀ 80	$\pm$ 0.002	$\pm$ 0.002	< 3
SAB 303-L	300	0.001	⌀ 80	$\pm$ 0.002	$\pm$ 0.002	< 5

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Optional Accessories

• Auxilary Display • Density Kit • Printer • Software • Test Weights

SCALE-TEC
MEASUREMENT WITH CONFIDENCE

SAB BASIC SERIES

BASIC PRECISION BALANCE

| LC-HR | EX-CAL | LCD | UNITS | % WEIGH | PCS | BATTERY |

Features

✴ Six Level Anti-Shock Adjustable Function.

✴ 17 Different Weighing Units : gm, ct, oz, lb, ozt, dwt GN etc.

✴ Application : Piece Counting, Percentage Weighing, Dynamic Weighing, Net-Gross Weighing etc.

✴ Bright and Large & Clear LCD Display with Back light.

✴ With a die-cast metal base and stainless steel pan, and balance is built to withstand rugged every day Weighing.

✴ Default and Auto Lock Working Weighing Mode.

✴ Optional : RS-232 Standard, USB Interface.

✴ Optional : Re-Chargeable Battery Back up.

MODEL	CAPACITY (gm)	RESOLUTION (gm)	PAN (mm)	REPEATABILITY (gm)	LINEARITY (gm)	RESPONSE TIME (Sec.)
External Calibration						
SAB 103	100	0.001	⌀ 80	± 0.001	± 0.002	< 3
SAB 203	200	0.001	⌀ 80	± 0.001	± 0.002	< 3
SAB 303	300	0.001	⌀ 80	± 0.002	± 0.002	< 3
SAB 403	400	0.001	⌀ 80	± 0.003	± 0.004	< 3
SAB 24	20	0.0001	⌀ 45	± 0.0004	± 0.0005	< 5
SAB 2002*	2100	0.01	160X160	± 0.02	± 0.03	< 5
SAB 6001*	6100	0.1	160X160	± 0.1	± 0.2	< 3
SAB 10001*	10100	0.1	160X160	± 0.1	± 0.2	< 3

* Do not include glass draft shield.

Optional Accessories

• **Auxilary Display** • **Data Printer** • **Software** • **Test Weights**

SCALETEC MECHATRONICS PVT. LTD.

SAB CLASSIC

SCALE-TEC
MEASUREMENT WITH CONFIDENCE

HIGH CAPACITY PRECISION BALANCE

Features

The New Price & Best in Performance Class High Capacity Precision Balance.

* Support : Weighing, Counting, Percentage, Animal Weighing. Optional: Density measurement

* 18 standard units, with all-character mark.

* Strong anti-shaking monolithic electromagnetic for highest accuracy.

* Standard 1500V isolation USB port, ease to connect with PC.

* User selectable filter, stability indicator and auto-zero tracking for use in difficult environment.

* Backlit, high-contrast display with 15 mm digits; exceptionally easy to read under any room lighting conditions.

EX-CAL

EM-FR | DENSITY | ANIMAL | PCS | UNITS | UNDER | LCD | RS-232 | USB
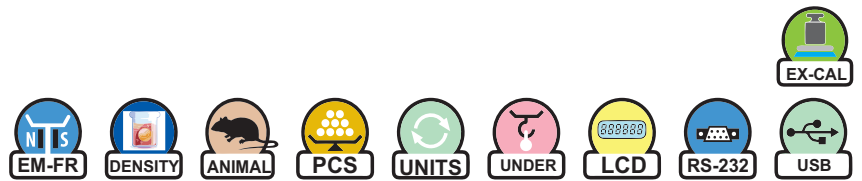
Get extensive high resolution even when you weigh high capacity with latest Monolithic Block Technology.

MODEL	CAPACITY (gm)	RESOLUTION (gm)	PAN (mm)	REPEATABILITY (gm)	LINEARITY (gm)	RESPONSE TIME (Sec.)
External Calibration						
SAB 2202CL	2200	0.01	180 x 180	± 0.01	± 0.02	< 3
SAB 3202CL	3200	0.01	180 x 180	± 0.01	± 0.02	< 3
SAB 4202CL	4200	0.01	180 x 180	± 0.01	± 0.02	< 3
SAB 5202CL	5200	0.01	180 x 180	± 0.01	± 0.02	< 3
SAB 6202CL	6200	0.01	180 x 180	± 0.01	± 0.02	< 3

SCALETEC MECHATRONICS PVT. LTD.

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Email: sales@scale-tec.in
Url: www.scale-tec.in

Optional Accessories

• Auxilary Display • Data Printer • Software • Test Weights

SCALE-TEC

MEASUREMENT WITH CONFIDENCE

CWS SERIES

BASIC TOP LOADING BALANCE

LC-HR · **EX-CAL** · **LCD** · **UNITS** · **% WEIGH** · **PCS** · **BATTERY**

Features

✴ Four Level Anti-Shock Adjustable Function.

✴ Different Weighing Units : gm, ct, gsm etc.

✴ Application : Piece Counting, Net-Gross Weighing etc.

✴ Bright LED Seven Segment 0.56" Display.

✴ In built re-chargeable Battery backup.

✴ One Touch Key Calibration & Easy User Linearity Function.

✴ Stainless Steel Weighing Pan easy to remove for cleaning.

✴ Optional : RS-232 Standard, USB Interface.

MODEL	CAPACITY (gm)	RESOLUTION (gm)	PAN (mm)	REPEATABILITY (gm)	LINEARITY (gm)	RESPONSE TIME (Sec.)
External Calibration						
CWS 302	300	0.01	⊘ 128	± 0.01	± 0. 015	< 3
CWS 602	600	0.01	⊘ 128	± 0.01	± 0. 015	< 3
CWS 1002	1100	0.01	⊘ 128	± 0.02	± 0. 02	< 3
CWS 1502	1500	0.01	⊘ 128	± 0.02	± 0. 02	< 3
CWS 2002	2000	0.01	⊘ 128	± 0.04	± 0. 05	< 3
CWS 305	300	0.005	⊘ 128	± 0.01	± 0. 015	< 3
CWS 3KE	3100	0.1	160X160	± 0.1	± 0. 2	< 3
CWS 6KE	6100	0.1	160X160	± 0.1	± 0. 2	< 3

Optional Accessories

• **Auxilary Display** • **Windshield** • **Data Printer** • **Test Weights**

COUNTING SCALE

SCALE-TEC
MEASUREMENT WITH CONFIDENCE

CWS PIECE COUNTING SCALE

CWS ECONOMY COUNTING SCALE

Features

* 3 LCD Display with Backlight for Weight, Unit Weight & Total Quantity.

* Check Weighing with Automatic quantity alarming.

* In built re-chargeable battery and design easy to replace it.

* Hi-Low limits on quantity.

MODEL	CAPACITY (Kg)	RESOLUTION (gm)	PAN (mm)
CWS-3KC-E	3	0.1	293 x 225
CWS-6KC-E	6	0.2	293 x 225
CWS-15KC-E	15	0.5	293 x 225
CWS-30KC-E	30	1	293 x 225

* PLU Function can preserve 21 weights, count more convenient.

* 3 LCD Display with Backlight for Weight, Unit Weight & Total Quantity.

* In built re-chargeable Battery backup.

* Aluminum die-cast alloy base is steady and firm, weigh more steady.

* In-built RS232 Standard Interface for data output.

CWS-PLU COUNTING SCALE

MODEL	CAPACITY (Kg)	RESOLUTION (gm)	PAN (mm)
CWS-7.5 PLU	7.5	0.1	335 x 220
CWS-10 PLU	10	0.1	335 x 220
CWS-15 PLU	15	0.2	335 x 220
CWS-30 PLU	30	0.5	335 x 220

* 3 LCD Display with Backlight for Weight, Unit Weight & Total Quantity.

* Check Weighing with Automatic quantity alarming.

* In built re-chargeable battery and design easy to replace it.

* Hi-Low limits on quantity.

* Optional RS232 Standard Interface for data output.

CWS MASTER COUNTING SCALE

MODEL	CAPACITY (Kg)	RESOLUTION (gm)	PAN (mm)
CWS-6KC-M	6	0.1	218 x 260
CWS-10KC-M	10	0.2	218 x 260
CWS-30KC-M	30	0.5	218 x 260

SCALETEC MECHATRONICS PVT. LTD.

Optional Accessories

• Auxilary Display • Hi-Low Indicator • Data Printer • Test Weights

SCALE-TEC
MEASUREMENT WITH CONFIDENCE

CWS SERIES TABLE TOP SCALE

TOP LOADING SCALE

Features

✶ Easily perform the following:
  - Net-Gross Formula
  - Piece Counting Function
  - M+ & Memory recall Function
  - Weighing Mode: Liter / gm / Kg.
  - Peak-Hold Function
  - Hi-Low for check weighing

✶ High Internal Resolution up to 200,000 counts.

✶ Optional Rear / Pole Display available for back view.

✶ In-built re-chargeable battery for continue use.

✶ Easy to view 0.56" LED Display RED/GREEN option.

✶ Environmentally protected load cells.

✶ Stainless Steel Platter.

✶ Optional RS232 / USB/ Printer Interface.

MODEL	CAPACITY (Kg)	READABILITY (gm)	PAN (mm)	REPEATABILITY (gm)	LINEARITY (gm)
CWS 6	6	0.5	240x280	± 0.5g	± 0.5
CWS 10	10	1	240x280	± 1	± 1
CWS 15	15	1	240x280	± 1	± 1
CWS 20	20	2	240x280	± 2	± 2
CWS 30	30	1	240x280	± 2	± 2
CWS 50T**	20/50	2/5	340x400	± 5	± 5
CWS 10SL	10	0.1	175x225	± 0.2	± 0.2
CWS 20SL	20	0.2	175x225	± 0.4	± 0.4
CWS 30SL	30	0.5	175x225	± 1.0	± 1.0

Optional Accessories

• Auxilary Display • Hi-Low Indicator • Data Printer • Test Weights

PLATFORM SCALE

CWS PLATFORM SCALE

Features

✶ Easily perform the following:
- Net-Gross Formula
- Piece Counting Function
- M+ & Memory recall Function
- Weighing Mode:
  Liter / gm. / Kg.
- Peak-Hold Function
- Hi-Low for check weighing

✶ 0.8" SEGMENT LED Display for easy view.

✶ Optional RS232 Interface for connecting Serial Printer or PC.

✶ Customize Platform Size, design, MOC (Stainless Steel / Mild Steel) Capacity & Functions are available on request.

✶ Equipped Rust proof, Weather Proof Loadcells for accurate results in any weather.

✶ Option : Weighing Controller with RS485 Modbus, Hi-Low Relay, Analogue Output - 4~20mA, Inbuilt Printer with Real Time Clock and many more options available on request.

Ultra Low Profile Scale

Low Profile Scale
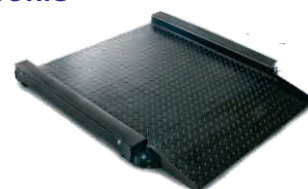
Flameproof Scale

Pallet Scale

MODEL	CAPACITY (Kg)	READABILITY (gm)	REPEATABILITY (gm)	PAN (mm)
CWS 50	50	5	10	
CWS 100	100	5 / 10	20	Standard Size 400*400 mm 500*500 mm 600*600 mm 750*750 mm 1000*1000 Or Custom size On request
CWS 200	200	10 / 20	20	
CWS 300	300	20 / 50	50	
CWS 500	500	50	100	
CWS 1000	1000	100	100	
CWS 2004	2000	200	200	
CWS 5004	5000	500	500	

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Optional Accessories

• Auxilary Display • Hi-Low Indicator • Data Printer • Test Weights

SCALE-TEC
MEASUREMENT WITH CONFIDENCE

STP PRINTER

GMP/GLP DATA PRINTER

Enhanced Support for ISO/GLP


```
002:        +    10.012 mg
003:        +    10.013 mg
004:        +    10.014 mg

X                10.0125 mg
s                0.001291 mg
srel             0.013 %
Ex               40.050 mg
min              10.011 mg
max              10.014 mg
Diff             0.003 mg

Sample:H2O
Lot NO. GO143
11:57:31     2013-04-16

Name:
```

```
Model:            AUW220
S/N:              D23452456       } Header
ID:
Date:             2014-08-13
Start Time:       22:26:24
Sample No.   00000000562
-------------------------
----------<STAT>----------
No.001            10.006 mg       } Measured
No.002            10.007 mg           Value
No.003            10.008 mg
----------<RESULT>--------
N=                      3          } Statistical
T=               30.021 mg            Result
MAX=             10.008 mg
MIN=             10.006 mg
RNG=              0.002 mg
MEAN=            10.0070 mg
SD=              0.001000 mg
CV=          0.009993005  %
-------------------------
End Time:         22:26:55        } Footer

Signature:
-------------------------
```

No. of Samples — N=
Total — T=
Maximum Value — MAX=
Minimum Value — MIN=
Range — RNG=
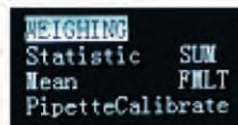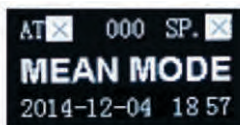Mean Value — MEAN=
Standard Dev. — SD=
Coeffi. Variation — CV=

Features

✳ **STP D3 / D5 provides further application.**

✳ **Pipette calibration**
Calibrate capacity of pipette and ask

✳ **User-defined calculation** operator can set coefficents (handy for converting result to local unit)

✳ **Tare/Net/Gross weight printing** Print out Tare/Net/Gross weight separately

✳ **SUM mode**
Print out the total values of samples

✳ **Averaging mode** Print out the average of samples

✳ **Formulation mode** Print out each sample's weight independently when blending samples

✳ **Comparator mode** Print out result whether weight of sample is within target range

✳ **Interval printing mode** Print out current weight at a regular interval

✳ **Support to:** SCALETEC / AXIS / A&D METTLER /SARTORIUS SHIMADZU / RADWAG etc.

FUNCTIONS	STP D1	STP D3	STP D5
128x64 OLED		■	■
Date & time (built-in clock)		■	■
Direct mode	■	■	■
Weighing mode	■	■	■
Statistical mode		■	■
Sum mode		■	■
Mean mode		■	■
Formulation mode		■	■
Sample name input		■	■
Sample batch number input		■	■
Batch number		■	■
Data Export(use U-Disk)			■
Data curve print			■
Periodic printing			■


```
AT⊠          SP.⊠
DIRECT
2014-12-04  18:56
```


```
AT⊠   000  SP.⊠
STAT. MODE
2014-12-04  18:56
```


```
AT⊠   000  SP.⊠
MEAN MODE
2014-12-04  18 57
```


```
WEIGHING
Statistic    SUM
Mean         FMLT
PipetteCalibrate
```

SCALETEC MECHATRONICS PVT. LTD.

STC SERIES

INDUSTRIAL CRANE SCALE

Features

* 5 Digit 30mm LED display visual< 25 meters.

* Switch on/off the scale automatically displays the charge voltage of Battery.

* RF-Remote for easy operation.

* Two Re-Chargable Batteries for continues use one by one.

* The Main board design low energy consumption and prolong the using time.

* The unique only charging protection, prevent over-current, overcharge, the battery service life is stronger, more durable.

* Alarm overload, low voltage, the voltage is less than 5.5v when prompted.

RF Remote

STC 500K

STC 15T ~ 50T

STC 3T ~ 10T

STC 1T/2T

MODEL	CAPACITY (M.T.)	RESOLUTION (Kg)	REPEATABILITY (Kg)	DISPLAY	MOC
STC 500k	0.5	0.1	0.2	LCD	ABS PLASTIC
STC 1T	1	0.2	0.5	1" LED	Mild Steel
STC 2T	2	0.5	1	1.2" LED	Alum. Die-Cast
STC 3T	3	0.5	1	1.2" LED	Alum. Die-Cast
STC 5T	5	1	2	1.2" LED	Alum. Die-Cast
STC 10T	10	2	5	1.2" LED	Alum. Die-Cast
STC 15T	15	5	10	1.2" LED	Alum. Die-Cast
STC 20T	20	5	15	1.5" LED	Mild Steel
STC 30T	30	10	20	1.5" LED	Mild Steel
STC 50T	50	20	50	2" LED	Mild Steel

* STC-500K do not have re-chargeble battery option & RF-Remote. Display Type : 20mm LCD
* STC-1T do has only one re-chargeble battery option.

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Optional Accessories

Wireless Display • Re-Charge Battery • Wireless Indicator

Wirelss Display

Printer

Wireless Indicator

SCALE-TEC
MEASUREMENT WITH CONFIDENCE

WIRELESS & HEAT PROOF INDUSTRIAL CRANE SCALE

STC xT/WH Thermal Scale

STC xT/H Thermal Scale

Features

✷ Unique load cell design for thermal scale guarantee the accuracy of scale using under the high ambient temperature.

✷ Special equipped Heat Isolation plate for thermal radiation.

✷ Heat protection board in the scale to stop the heat penetration.

✷ Resistant all steel construction for RFI protection.

✷ Hend-Held Type or Desktop with Printer Type Indicators

✷ Radio data transmission ˃ 100m (when unobstructed).

✷ Power supply: Nd -H rechargeable battery (6V/4Ah) for indicator and highcapacity

✷ Memory stores us to 2900 weight data set

✷ Optional Desktop Printer Indicator with Date & Time and Accumulation with Serial Number Print facility.

MODEL	CAPACITY (M.T.)	RESOLUTION (Kg)	REPEATABILITY (Kg)	DISPLAY	MOC
STC 2T/H	2t	0.5kg	1kg	1.2" LED	Alum. Die-Cast
STC 3T/H	3t	1kg	2kg	1.2" LED	Alum. Die-Cast
STC 5T/H	5t	1kg	2kg	1.2" LED	Alum. Die-Cast
STC 10T/H	10t	2kg	5kg	1.2" LED	Alum. Die-Cast
STC 3T/WH	3t	1kg	2kg	Wirelss	Mild Steel
STC 5T/WH	5t	1kg	2kg	Wirelss	Mild Steel
STC 10T/WH	10t	2kg	5kg	Wirelss	Mild Steel
STC 20T/WH	20t	5kg	10kg	Wirelss	Mild Steel
STC 30T/WH	30t	10kg	20kg	Wirelss	Mild Steel
STC 50T/WH	50t	20kg	50kg	Wirelss	Mild Steel

* Distance between Hook and Heated area
  1.5 meter ~ 1200 ^{0}C / 2 meter ~ 1800 ^{0}C temperature.

Optional Accessories

Wirelss Display

Wireless Indicator

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STW SYSTEM

INDUSTRIAL TANK WEIGHING SYSTEM

Features

∗ Our Tank Weighing Systems are designed for weighing amount of liquid or solid material filled into or discharged from industrial tanks, silos, bunkers and mixers.

∗ These systems can be supplied with stainless steel and alloy steel load cells, available right from 100 kg to 500 ton capacities.

∗ We have the expertise to commission the systems for any type of applications such as normal, hygienic, high temperature, hazardous, corrosive, etc.

∗ Our unique concept of using pad plates ensures quick and accurate installation of load cells.

∗ The general idea of tank weighing is to place load cells under each foot of the tank/hopper/vessel, then connects the load cells to a weighing controller through a junction box which is used to compensate the signal difference of the load cells. The weighing controller is able to display the weight value after the system is calibrated, the indicator is equipped with relays output, 0-5V/0-10V/4-20mA analog output and communication port for automation control purpose.
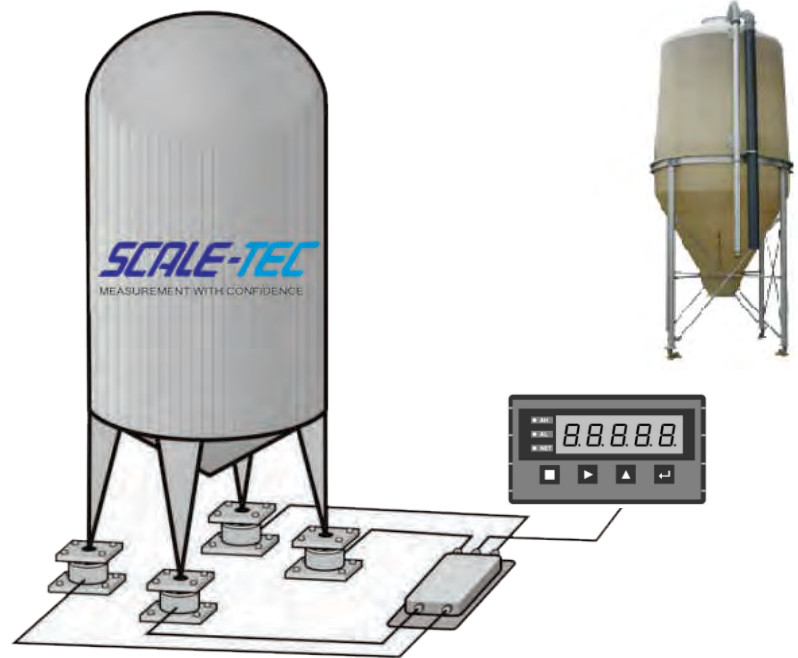
Different Type of Structural Design
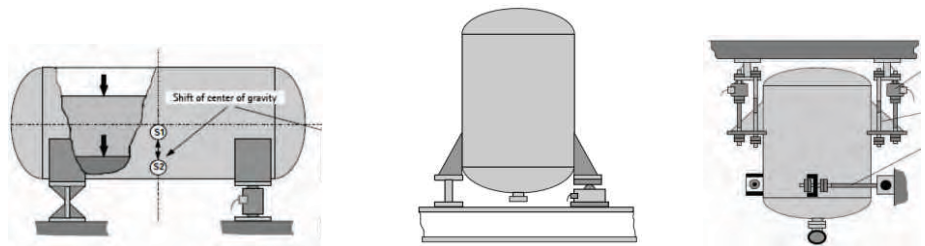
WEIGHING RANGE	100kg to 100 MT
Resolution	1 / 10,000
Number of Load cells	3 / 4 / 6 / 8 (as per silo design)
Weighing Controller	Panel Mount / Wall Mount / Flame Proof
Power Supply	0-220V AC ~ 24VDC
Communication	RS 232 / RS 485 Modbus / 4~20mA Analogue
Temperature Range	-5 oC to 50 oC

Weighing Controller for Different applcation

• Batch Weighing • Filling Syste • Check Weigher • Multi Head Weigher

PRINTER

Serial Printer with Statistics function model STAT:
High-Speed dot matrix printer, ISO/GLP compliant Data Printout, Built in real-time clock, Support: Weighing, Statistical report, sum, mean and Formulation function. Editable title (header) & tail, Sample name, Batch number can be inputted and print. Admin password lock.

AUX. DISPLAY

Auxiliary Display : Display available from 0.56" to 3" different size with LCD / Red LED / Green LED option.

SOFTWARE

Communication Software for balances
Complete kit to connect SCALETEC balances to a computer. It allows data collection, Statistics, creation of graphs and export results to Excel file.
The Kit includes: RS232 or USB converter cable, Weight Software for data collection and analysis .

DENSITY KIT

Density KIT
Density KIT for density calculation of SOLIDS or LIQUIDS for SCALETEC & AXIS balances with resolution 0,1mg/0,001g/0,01g.

TEST WEIGHTS

Calibration Test Weights:
Available in E1, E2, F1 & F2 Class as per OIML R60 standards in stainless steel in sets or individual.

WINDSHIELD

Windshield:
Available for SCALETEC balance with 0,001 / 0.01 precision balances

CAL. THERMOMETER

Thermometer calibration KIT model PT-100
Small, fast-response thermometer for verify and calibrate the heating source of AXIS moisture Analyzers. A calibrated moisture analyzer's heater allows to have always accurate results. Essential for application where are required certified results.

SCALE-TEC

MEASUREMENT WITH CONFIDENCE

zemic EUROPE

AXIS *POLAND*

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