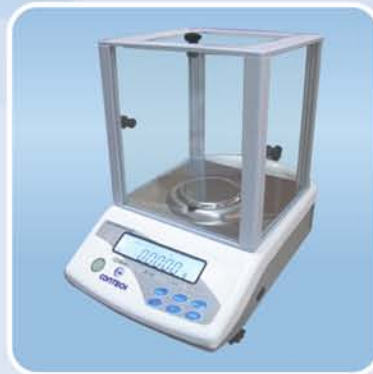


High Precision Laboratory Balances from
India's Largest Manufacturer of Magnet
based Electronic Balances



CONTECH[®]
Instruments Ltd.
AN ISO 9001-2008 COMPANY

Where innovation never stops...

CONTECH High Precision Balances incorporate advanced Electro Magnetic Force Compensation technology for offering unmatched accuracy and reliability coupled with unique ADC circuit with inbuilt temperature compensation to offer a very high stability upto a resolution of 2 million counts. All adjustment parameters are programmable to take care of any minor mismatch of different sub assemblies & Balances are configured with these parameters.



Advanced EMFC Transducers

SEMI MICRO / ANALYTICAL BALANCES

0.00001g to 230g

Standard Features

Backlite LCD Display

Customized, large, attractive LCD with multiparameter display illuminated by white backlite.

Bi directional RS 232 interface

RS 232 port with selectable baud rate 2400, 4800
Various interface formats adopting this Balance in a setup to replace any other leading international brand Balance.

GSM function

GSM function for paper & cloth quality checking.

Multiple Weighing Units

Grams, Ounces, Troy Ounces, Carats, Mommies, Pennyweights, Grains, tola, Mesghal, Chinese tael.

Percentage Weighing

Display of Reference weight, sample weight, % of sample with respect to reference weight

Piece Counting

Parts calibration using preset quantity of samples or programmable quantity. Automatic count correction for precise calibration.

Fill Mode

1 set point - Indication when sample weight exceeds the set limit.
2 set points - Indication when the sample weight is between the lower & upper limits.

Accumulation

Storage of maximum 200 samples.

Multiple Printing Mode

0,1,2,3 modes for various formats. Pause in case data storage capacity in a Printer is less.

External Calibration

Using preset weights.
Known weights can be corrected to ± 15 counts.

Response Time:

User selectable - Slow / Normal /Fast.

Stability Band Width

Stability indicator appears on display with counts variation $\pm 1, \pm 2, \pm 3, \pm 4$.

Auto Zero Tracking

User selectable 0,1,2,3

Return to Zero Tracking

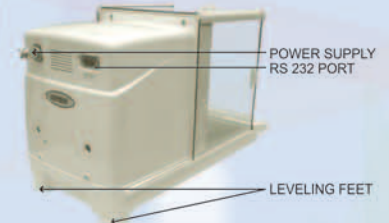
Variable: 0,1,2,3,4

Display Updation

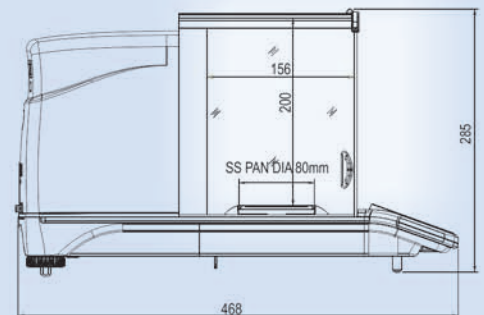
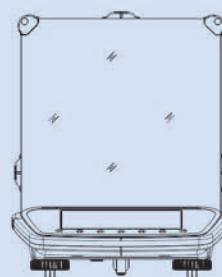
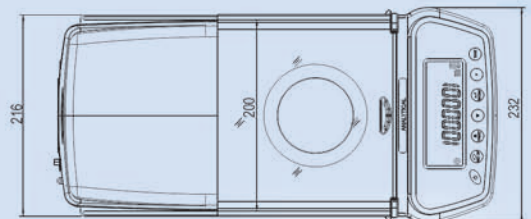
Speed setting : Fast / Normal.

Optional Features

- Motorized internal calibration.
- ISO GLP compliance.
- Real time clock (RTC).
- Density determination kit.
- Software for weigh below hook for density determination.
- Software for Yarn count with temperature compensation.
- Software for Denier measurement for silk & synthetic yarn.
- Software for Cocoon assessment with statistical analysis for cocoons.
- Software for SQC (Statistical Quality Control) for Pharmaceutical Industries.



Customized, large, attractive LCD with Multiparameter display illuminated by white backlite



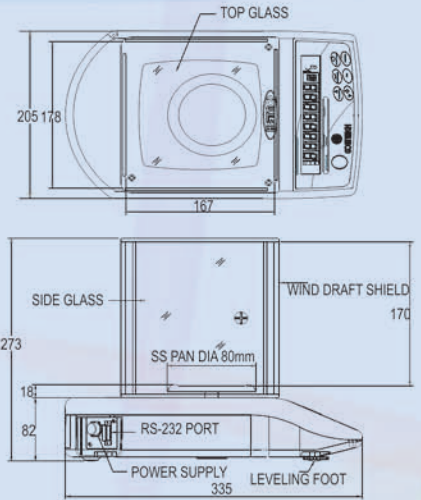
Models	CA-224D	CA-234	CA-164
Capacity	30/220g	230g	160g
Readability	0.00001g/0.0001g	0.0001g	0.0001g
Repeatability (+/-)	0.03/0.2 mg	0.2 mg	0.2 mg
Linearity (+/-)	0.04/0.4 mg	0.4 mg	0.3 mg
Pan Size (mm)	80	80	80

Specifications for all Laboratory Balances

Taring Range : Up to full capacity
Response time : 3 seconds
Power Req : 90-250V, 50/60Hz, 10 Watt
Operating Temperature : 10 to 45 deg C

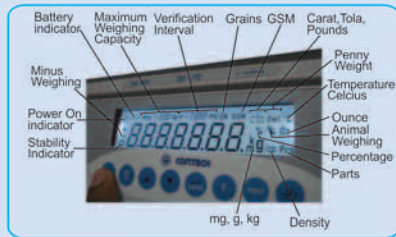
Models	CA-34	CA-64	CA-124
Capacity	30g	60g	120g
Readability	0.0001g	0.0001g	0.0001g
Repeatability (+/-)	0.1 mg	0.1 mg	0.2 mg
Linearity (+/-)	0.2 mg	0.2 mg	0.3 mg
Pan Size (mm)	80	80	80

The balance is supplied with Breeze shield as standard.

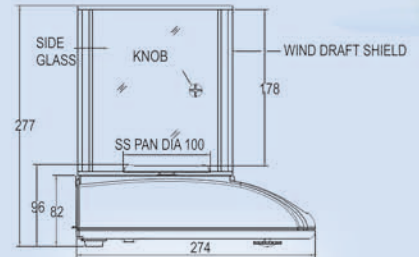
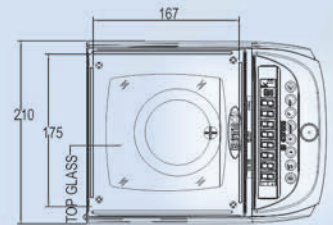


HIGH PRECISION BALANCES

0.001g to 500g



Customized, attractive LCD display



Models	CA-123	CA-223	CA-323	CA-413	CA-503
Capacity	120g	220g	320g	410g	500g
Readability	0.001g	0.001g	0.001g	0.001g	0.001g
Repeatability (+/-)	0.001 g	0.001 g	0.001 g	0.001 g	0.002g
Linearity (+/-)	0.001 g	0.001 g	0.002 g	0.002 g	0.002g
Pan Size(mm)	100	100	100	100	100

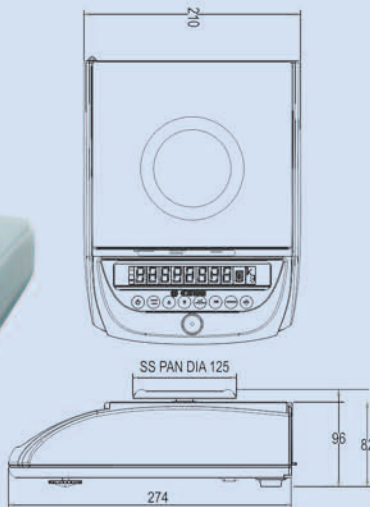
The balance is supplied with Breeze shield as standard.

PRECISION BALANCES

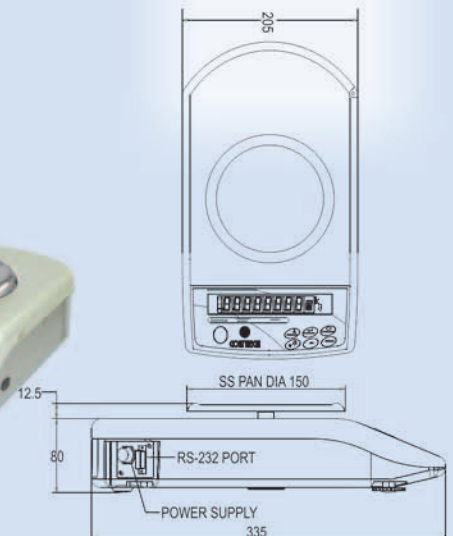
0.01g to 5kg



Upto 1000g



Above 1000g

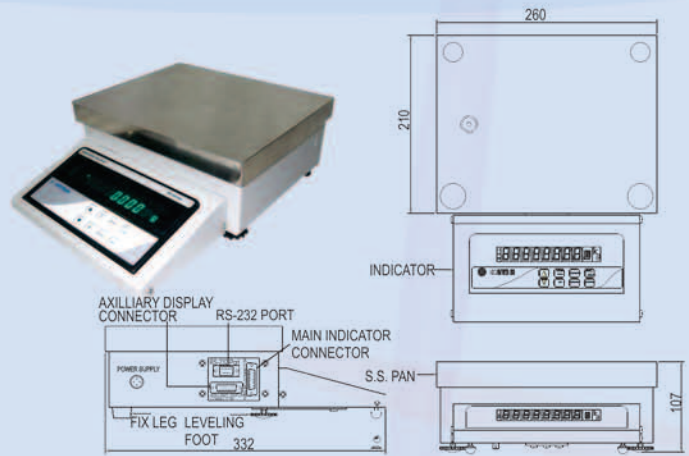


Models	CB-600	CB-1000	CA-1502	CA-2202	CA-3102	CA-4102	CA-5002
Capacity	600g	1000g	1500g	2200g	3100g	4100g	5000g
Readability	0.01g	0.01g	0.01g	0.01g	0.01g	0.01g	0.01g
Repeatability (+/-)	0.01g	0.01g	0.01g	0.01g	0.02g	0.02g	0.02g
Linearity (+/-)	0.01g	0.02g	0.02g	0.02g	0.02g	0.02g	0.02g
Pan Size(mm)	125	125	150	150	150	150	150

INDUSTRIAL PRECISION BALANCES

0.1g to 10kg

Models	CB-6001	CB-10001
Capacity	6000g	10000g
Readability	0.1g	0.1g
Repeatability (+/-)	0.1 g	0.2 g
Linearity (+/-)	0.2 g	0.3 g
Pan Size(mm)	210x260	210x260

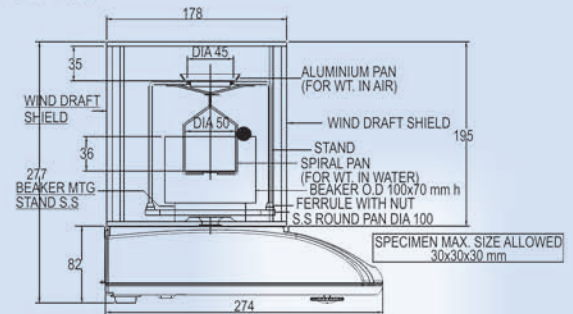
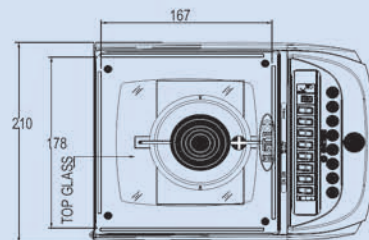


OPTIONAL ACCESSORIES

DENSITY BALANCES

0.1 mg - 10 kg

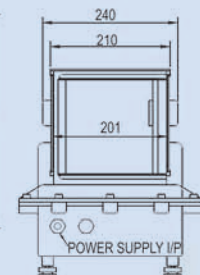
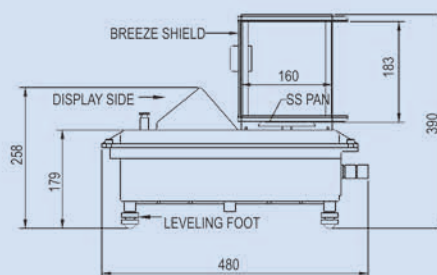
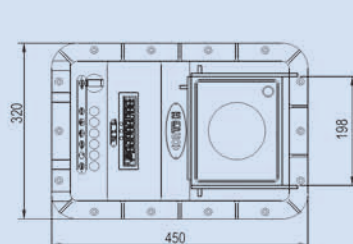
- Density Determination Kit is available in 2 types one to be mounted on the pan and the other type is with attachment for weigh below the balance. Density Determination Kit consists of pan (for weighing in air), suspended spiral pan (for weighing in water), S.S. stand for holding pan fitted to S.S. pan placed on the balance, stainless steel stand for placing beaker, glass beaker, optional sinker for testing materials having density less than water and software (program) for density determination.
- Facility for programming density of liquid (other than water) and temperature of water.
- Incase of multiple samples, storage of all the sample weights in air first and then in water, viewing of density of individual samples one by one on the display (Optional).
- Determination of density of liquid samples (Optional).
- Determination of air release value for oil samples (Optional).



FLAMEPROOF BALANCES

0.1 mg - 6 kg

Flameproof cum weather proof enclosure with glass window, push button, rotary switch in cast aluminium construction in compliance with requirements in respect of flameproofness and temperature class suitable for use in Zone 1 & Zone 2 and gas groups IIA & IIB atmospheres. Certified by Central Institute of Mining & Fuel Research, Govt. of India.



MOTORIZED CALIBRATION

Fully automatic calibration accomplished by a smooth noiseless motor driven standard weight inside the balance eliminating weight maintenance. Accurately machined stainless steel standard weight is used for the purpose. Any tolerance in the weight machining is corrected through software. Balance can be programmed to initiate the motorized calibration process everytime when it is switched ON, change in the ambient temperature, at a preset time to recalibrate the balance.



Motorized Calibration for High Precision Balances

GLP COMPLIANCE SOFTWARE

Printer having serial port can be connected to all Contech scales with RS-232 interface for printing weight data. Different applications can generate various reports which can be printed on the serial printer. GLP software with inbuilt RTC allows for the composition of GLP procedures for calibration test and calibration report with date and time on a printer connected to the serial port of the balances.



GLP Compliance printout on Mini Printer

SWITCH MODE POWER SUPPLY (SMPS)

Contech scales are supplied with SMPS which provides required DC voltages for the operation of the scale circuit. SMPS operates on a high frequency and hence the circuit becomes efficient & compact. The input AC power voltage span is 100-270V, AC, 50/60Hz and hence with SMPS, the scale can operate on both 110V and 220V AC supply.



Switch Mode Power Supply (90-250V, AC, 50/60Hz)

BATTERY BACKUP

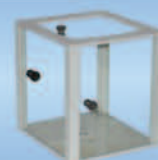
Battery backup unit is an online uninterrupted power supply providing adequate voltages for the operation of the balance in case of power failure. Battery Backup unit incorporates sealed maintenance free lead acid batteries with a charger and under voltage and over voltage protection circuit.



Battery Backup for EMFC Balances

BREEZE SHIELD

Contech provides glass breeze shield as standard with EMFC balances having accuracy of 1 mg or better to shield the weighing area from breeze. For balances with accuracy less than 1 mg, breeze shield can be provided as optional. Different types of Breeze Shields are available based on the model and application.



Breeze Shield for High Precision Balances

AUXILIARY DISPLAY (REMOTE, WIRED)

Auxiliary display is provided with cable for viewing at a distance away from the scale which can be placed on the table top or mounted on the wall. Maximum cable length can be upto 25 mtrs. The Auxiliary display is available in LED, VFD or LCD as per the provision in the scale.



Auxiliary Displays (remote, Wired)

STANDARD WEIGHTS

- High precision metrological standard weights and weight box.
- Complete range: 1 mg to 200 g weight box and loose weights upto 20 kg
- M1, E1, E2, F1, F2, Class weights.
- Stainless steel, Austenite alloy, Brass material
- Calibrated by NABL accredited Laboratory, RRSL (Regional Reference Standard Laboratory, NPL (National Physical Laboratory) (Optional).



Standard Weights NABL/NPL/RRSL Certified

Where innovation never stops...

Laboratory Instruments Manufactured
by **CONTECH**[®]



Abbe Refractometer



Moisture Balance



Melting Point Apparatus



pH/Conductivity Meter



Coal/Flue/Bio
Gas Analyzer



Digital Polarimeter



State Of The Art Manufacturing Plant

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