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<td>Baby Weighing Scales</td>
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<td>Piece Counting Scales</td>
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<td>Stainless Steel Low Profile Scales</td>
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<td>Crane Scales</td>
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<td>Standard Crane Scales</td>
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<td>Standard Crane Scales with wireless indicator</td>
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<td>Auxiliary Display attached to the balance on the pole</td>
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<td>Switch Mode Power Supply (SMPS)</td>
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<td>Battery Backup</td>
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<td>Mini Printer</td>
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<td>Flameproof Junction Box</td>
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<tr>
<td>Anti Vibration Table for Analytical Balance</td>
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<td>Digital Force Cap - Torque Tester</td>
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<td>Digital Spring Tester</td>
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<td>CRP Meter</td>
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<td>Dual Parameter Meters</td>
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<td>Electrodes</td>
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<td>Electrochemical Electrodes</td>
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<tr>
<td>Accessories for Electro Chemical Instruments</td>
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<td>Sample Preparation Equipments</td>
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<tr>
<td>Magnetic Stirrer CMS-01</td>
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<tr>
<td>Magnetic Stirrer CMS-02</td>
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<td>Magnetic Stirrer CMS-03</td>
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<td>Magnetic Stirrer with heating CMS-01H</td>
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<tr>
<td>Magnetic Stirrer with heating CMS-02H</td>
<td>26</td>
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<tr>
<td>Magnetic Stirrer with heating CMS-03H</td>
<td>27</td>
</tr>
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<td>Multi Station Magnetic Stirrer with Heating CMS-10H</td>
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<td>Rocking Shaker</td>
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<td>X-Ray Fluorescence Spectrometers</td>
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<td>Silicon Pin XRF Detector CGX102</td>
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<td>Silicon Drift Detector CGX103</td>
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<td>Handheld Detector CGX-104</td>
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www.contechindia.com
India's Largest Electro Magnetic Force Compensation (EMFC) Balance Assembly line since 1992

CONTECH Instruments Ltd, an ISO 9001, 14001 & OHSAS 18001 Company established in the year 1992 has an installation base of more than 4 lakh scales all over the world. CONTECH is the only Indian manufacturer who has developed and manufactured in true sense the complete range of Electronic Balances from 0.01mg Analytical Balances to 50 ton Crane Scales in its own setup illustrating the technical competence of the Company.

Advanced EMFC transducer for unmatched accuracy & reliability

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 3 million counts. All adjustment parameters are programmable to take care of any minor mismatch of different sub assemblies & Balances are configured with these parameters.

Total Inhouse Manufacturing to Achieve OIML Quality Standards

CONTECH has established a state of the art factory in the outskirts of Mumbai covering an area of 18000 sq ft with most modern equipments and machineries for manufacturing and testing of High Precision Electronic Balances, weighing scales & various laboratory instruments.
100% Strict Quality Control, Vigorous Testing at Every Stage, Simulation & calibration correction at extreme environment conditions

Quality has been the backbone of success of CONTECH over the years. All Balances are tested for quality and accuracy as per the guidelines laid down by International Organization of Legal Metrology (OIML). Every balance is tested in the walk-in environmental chamber for the extreme temperature from 10 - 50°C & software calibration correction done so as to make the balance display readings within the permissible error limits depending on the accuracy class against standard weights. CONTECH provides the test certificates, Quality Certificates for design (IQ), Installation (OQ), Operation (OQ), Performance (PQ) as required by various certifying authorities governing the industry segments.

High Precision Laboratory Instruments for Chemical, Pharmaceutical & Food processing Industries, Research & Educational Institutes

CONTECH’s vast experience and in-depth knowledge of Laboratory needs and Analytical instrumentation has helped it to roll out complete range of High Precision Laboratory Instruments viz. pH, Conductivity, TDS, Dissolved Oxygen, ORP Meters, Multiparameter Meters, Digital Polarimeters, Refractometers, Melting Point Apparatus, Magnetic Stirrers, Hotplate Stirrers, Shakers, Digital Rollers, Digital Rotators, X-Ray Gold Purity Testers, etc.

Achievements by CONTECH

- 1st prize in the category of Outstanding Industrial Enterprise by federation of small & medium industries, W. B.
- Nominated for Leaders of Tomorrow Celebrating Entrepreneurship by Indiaret & ET NOW.
- Certified as member of the Dun & Bradstreet Global Database.
- Model Approval by Department of Weights & Measures, Ministry of Civil Supplies, Govt. of India.
# Laboratory Balances

## Indirect Loading Analytical / Semi Micro Balances
0.00001g to 300g

*Indirect Loading Analytical / Semi Micro Balances without motorized internal calibration*

<table>
<thead>
<tr>
<th>Models</th>
<th>CAS-44</th>
<th>CAS-64</th>
<th>CAS-194</th>
<th>CAS-234</th>
<th>CAS-304</th>
</tr>
</thead>
<tbody>
<tr>
<td>Capacity</td>
<td>40g</td>
<td>60g</td>
<td>80g</td>
<td>160g</td>
<td>280g</td>
</tr>
<tr>
<td>Readability</td>
<td>0.0001g</td>
<td>0.0001g</td>
<td>0.0001g</td>
<td>0.0001g</td>
<td>0.0001g</td>
</tr>
<tr>
<td>Linearity (+)</td>
<td>0.1mg</td>
<td>0.1mg</td>
<td>0.2mg</td>
<td>0.2mg</td>
<td>0.2mg</td>
</tr>
<tr>
<td>Pan Size (mm)</td>
<td>100</td>
<td>100</td>
<td>100</td>
<td>100</td>
<td>100</td>
</tr>
</tbody>
</table>

The balance is supplied with Breeze shield as standard.

*Indirect Loading Analytical / Semi Micro Balances with motorized internal calibration*

<table>
<thead>
<tr>
<th>Models</th>
<th>CAS-35</th>
<th>CAS-44</th>
<th>CAS-194</th>
<th>CAS-234</th>
<th>CAS-304</th>
</tr>
</thead>
<tbody>
<tr>
<td>Capacity</td>
<td>30g</td>
<td>40g</td>
<td>60g</td>
<td>160g</td>
<td>280g</td>
</tr>
<tr>
<td>Readability</td>
<td>0.00001g</td>
<td>0.0001g</td>
<td>0.0001g</td>
<td>0.0001g</td>
<td>0.0001g</td>
</tr>
<tr>
<td>Linearity (+)</td>
<td>0.2mg</td>
<td>0.2mg</td>
<td>0.2mg</td>
<td>0.4mg</td>
<td>0.4mg</td>
</tr>
<tr>
<td>Pan Size (mm)</td>
<td>100</td>
<td>100</td>
<td>100</td>
<td>100</td>
<td>100</td>
</tr>
</tbody>
</table>

The balance is supplied with Breeze shield & internal motorized calibration as standard.

### Features of Semi Micro, Analytical, High Precision, Precision & Industrial Precision Balances

- Multiple weighing units.
- Standard bi-directional RS-232 interface.
- Polyfunction: % weighing, counting, fill mode, GSM etc.
- Backlite LCD display.
- USB interface (Optional).
- Motorized internal calibration (Optional).
- ISO GLP compliance (Optional).
- Real time clock (RTC) (Optional).
- Density determination kit (Optional).
- Weigh below hook for density determination (Optional).
- Yarn count with temperature compensation (Optional).
- Denier measurement for silk & synthetic yarn (Optional).
- Cocoon assessment with statistical analysis for cocoons (Optional).
- Software for SQC (Statistical Quality Control) for Pharmaceutical Industries (Optional).

## Top Loading Analytical Balances
0.0001g to 220g

*Direct Loading Analytical Balances without motorized internal calibration*

<table>
<thead>
<tr>
<th>Models</th>
<th>CAC-34</th>
<th>CAC-64</th>
<th>CAC-124</th>
<th>CAC-224</th>
</tr>
</thead>
<tbody>
<tr>
<td>Capacity</td>
<td>30g</td>
<td>60g</td>
<td>120g</td>
<td>220g</td>
</tr>
<tr>
<td>Readability</td>
<td>0.0001g</td>
<td>0.0001g</td>
<td>0.0001g</td>
<td>0.0001g</td>
</tr>
<tr>
<td>Linearity (+)</td>
<td>0.2mg</td>
<td>0.2mg</td>
<td>0.4mg</td>
<td>0.4mg</td>
</tr>
<tr>
<td>Pan Size (mm)</td>
<td>100</td>
<td>100</td>
<td>100</td>
<td>100</td>
</tr>
</tbody>
</table>

The balance is supplied with Breeze shield as standard.
Direct Loading Analytical Balances with motorized internal calibration

<table>
<thead>
<tr>
<th>Models</th>
<th>CAI-34</th>
<th>CAI-94</th>
<th>CAI-124</th>
<th>CAI-224</th>
</tr>
</thead>
<tbody>
<tr>
<td>Capacity</td>
<td>3g</td>
<td>9g</td>
<td>12g</td>
<td>22g</td>
</tr>
<tr>
<td>Repeatability</td>
<td>0.0001g</td>
<td>0.0003g</td>
<td>0.0005g</td>
<td>0.0005g</td>
</tr>
<tr>
<td>Linearity (±)</td>
<td>0.3mg</td>
<td>0.3mg</td>
<td>0.4mg</td>
<td>0.4mg</td>
</tr>
<tr>
<td>Pan Size (mm)</td>
<td>100</td>
<td>100</td>
<td>100</td>
<td>100</td>
</tr>
</tbody>
</table>

The balance is supplied with Breeze shield & Internal motorized calibration as standard.

High Precision Balances with motorized internal calibration

<table>
<thead>
<tr>
<th>Models</th>
<th>CAH-123</th>
<th>CAH-223</th>
<th>CAH-323</th>
<th>CAH-413</th>
<th>CAH-503</th>
<th>CAH-603</th>
<th>CAH-803</th>
<th>CAH-1003</th>
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</thead>
<tbody>
<tr>
<td>Capacity</td>
<td>10g</td>
<td>20g</td>
<td>30g</td>
<td>40g</td>
<td>50g</td>
<td>60g</td>
<td>80g</td>
<td>100g</td>
</tr>
<tr>
<td>Repeatability (±)</td>
<td>0.0001g</td>
<td>0.0001g</td>
<td>0.0001g</td>
<td>0.0001g</td>
<td>0.0001g</td>
<td>0.0001g</td>
<td>0.0001g</td>
<td>0.0001g</td>
</tr>
<tr>
<td>Linearity (±)</td>
<td>0.001g</td>
<td>0.002g</td>
<td>0.003g</td>
<td>0.003g</td>
<td>0.004g</td>
<td>0.005g</td>
<td>0.006g</td>
<td>0.006g</td>
</tr>
<tr>
<td>Pan Size (mm)</td>
<td>100</td>
<td>100</td>
<td>100</td>
<td>100</td>
<td>100</td>
<td>100</td>
<td>100</td>
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</tr>
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</table>

The balance is supplied with Breeze shield & Internal motorized calibration as standard.

HIGH PRECISION BALANCES

0.001g to 1000g

High Precision Balances without motorized internal calibration

<table>
<thead>
<tr>
<th>Models</th>
<th>CBB-1001</th>
<th>CAH-123G</th>
<th>CAH-223G</th>
<th>CAH-323G</th>
<th>CAH-413G</th>
<th>CAH-503G</th>
<th>CAH-603G</th>
<th>CAH-803G</th>
<th>CAH-1003G</th>
</tr>
</thead>
<tbody>
<tr>
<td>Capacity</td>
<td>50g</td>
<td>100g</td>
<td>200g</td>
<td>300g</td>
<td>400g</td>
<td>500g</td>
<td>600g</td>
<td>800g</td>
<td>1000g</td>
</tr>
<tr>
<td>Repeatability</td>
<td>0.001g</td>
<td>0.001g</td>
<td>0.001g</td>
<td>0.001g</td>
<td>0.001g</td>
<td>0.001g</td>
<td>0.001g</td>
<td>0.001g</td>
<td>0.001g</td>
</tr>
<tr>
<td>Linearity (±)</td>
<td>0.01g</td>
<td>0.02g</td>
<td>0.03g</td>
<td>0.03g</td>
<td>0.04g</td>
<td>0.04g</td>
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<td>0.05g</td>
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<tr>
<td>Pan Size (mm)</td>
<td>100</td>
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<td>100</td>
<td>100</td>
<td>100</td>
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</tbody>
</table>

The balance is supplied with Breeze shield as standard.

PRECISION BALANCES

0.01g to 5kg

0.01g-1000g

0.01g-3000g

0.01g-6000g

Models

<table>
<thead>
<tr>
<th>Models</th>
<th>CBB-300</th>
<th>CBB-1000</th>
<th>CA-1200</th>
<th>CBB-3000</th>
<th>CBB-8000</th>
<th>CBB-10000</th>
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</thead>
<tbody>
<tr>
<td>Capacity</td>
<td>100g</td>
<td>1000g</td>
<td>1200g</td>
<td>3000g</td>
<td>8000g</td>
<td>10000g</td>
</tr>
<tr>
<td>Repeatability</td>
<td>0.01g</td>
<td>0.01g</td>
<td>0.01g</td>
<td>0.01g</td>
<td>0.01g</td>
<td>0.01g</td>
</tr>
<tr>
<td>Linearity (±)</td>
<td>0.01g</td>
<td>0.02g</td>
<td>0.02g</td>
<td>0.03g</td>
<td>0.03g</td>
<td>0.04g</td>
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<tr>
<td>Pan Size (mm)</td>
<td>125</td>
<td>125</td>
<td>150</td>
<td>150</td>
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Models

<table>
<thead>
<tr>
<th>Models</th>
<th>CAC-1502</th>
<th>CAC-2202</th>
<th>CAC-3102</th>
<th>CA-4102</th>
<th>CA-5002</th>
<th>CBB-3000</th>
<th>CBB-4000</th>
</tr>
</thead>
<tbody>
<tr>
<td>Capacity</td>
<td>1500g</td>
<td>2200g</td>
<td>3100g</td>
<td>4100g</td>
<td>5000g</td>
<td>3000g</td>
<td>4000g</td>
</tr>
<tr>
<td>Repeatability</td>
<td>0.01g</td>
<td>0.01g</td>
<td>0.01g</td>
<td>0.01g</td>
<td>0.01g</td>
<td>0.01g</td>
<td>0.01g</td>
</tr>
<tr>
<td>Linearity (±)</td>
<td>0.02g</td>
<td>0.03g</td>
<td>0.03g</td>
<td>0.05g</td>
<td>0.05g</td>
<td>0.06g</td>
<td>0.06g</td>
</tr>
<tr>
<td>Pan Size (mm)</td>
<td>165x175</td>
<td>165x175</td>
<td>150</td>
<td>150</td>
<td>150</td>
<td>150</td>
<td>150</td>
</tr>
</tbody>
</table>

CAC models can be provided with motorized internal calibration (optional).
**INDUSTRIAL PRECISION BALANCES**

0.1g to 10kg

<table>
<thead>
<tr>
<th>Models</th>
<th>CBI-6001</th>
<th>CBI-8001</th>
</tr>
</thead>
<tbody>
<tr>
<td>Capacity</td>
<td>6000g</td>
<td>8000g</td>
</tr>
<tr>
<td>Readability</td>
<td>0.1g</td>
<td>0.1g</td>
</tr>
<tr>
<td>Repeatability (+/-)</td>
<td>0.2g</td>
<td>0.2g</td>
</tr>
<tr>
<td>Linearity (+/-)</td>
<td>0.3g</td>
<td>0.3g</td>
</tr>
<tr>
<td>Pan Size (mm)</td>
<td>210x260</td>
<td>210x260</td>
</tr>
</tbody>
</table>

Common 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: 15 to 45 deg C

**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 density weighing pan assembly, stainless steel base for 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.
- Determination of density of liquid samples (Optional).
- Determination of air release value for oil samples (Optional).

**FLAMPROOF BALANCES**

0.1 mg - 5 kg

Flamproof case weather proof enclosure with glass window, push button, rotary switch in cast aluminium construction in compliance with requirements in respect of flamproofness 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.
MOISTURE BALANCES

0.001g to 220g

<table>
<thead>
<tr>
<th>Models</th>
<th>CBB-50 (M)</th>
<th>CAH-123 (M)</th>
<th>CAH-223 (M)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Capacity</td>
<td>50g</td>
<td>120g</td>
<td>220g</td>
</tr>
<tr>
<td>Readability</td>
<td>0.001g</td>
<td>0.001g</td>
<td>0.001g</td>
</tr>
<tr>
<td>Pan Size</td>
<td>100 mm</td>
<td>100 mm</td>
<td>100 mm</td>
</tr>
</tbody>
</table>

- Easy & Fast Moisture Determination.
- Weighing based on EMFC technique.
- Heating by infrared halogen tube heater.
- Temperature range up to 200°C (170°C).
- Moisture ranges: 0.1% to 100%
- Moisture measurement: Unit- % wet base
  % dry base
  % dry weight

- Display of time, temperature, weight & percentage moisture.
- Graphical Backlit LCD for displaying weight, setup parameters, testing parameters & results.
- RS-232 Interface for connecting to a computer/printer.
- Data storage up to 50 tests.
- 10 programmable memory.
- Time based moisture loss on the graphical display.
- Study of pattern of moisture loss by printing/display on computer screen of online data - elapsed time, present sample weight and percentage moisture loss. Elapsed time Interval can be programmed - 10,20,30,60 & 120 seconds.

Contech Moisture Analyzer incorporates rapid Halogen heating with EMFC precision weighing technology to determine moisture content of samples quickly & effectively.

**Moisture Content:**

- **Accuracy**: 0.1% for sample above 5g
- **(std. dev.)**: 0.5% for sample below 5g
- **Resolution**: 0.1%

**Specifications**

- Taring Range: Up to full capacity
- Power Req.: 90-250V, 50/60Hz, 550 Watt
- Operating Temperature: 15 to 45 deg C
GEM AND JEWELLERY SCALES

CARAT SCALES
0.001g to 50g

<table>
<thead>
<tr>
<th>Models</th>
<th>CTL-20</th>
<th>CTL-50</th>
</tr>
</thead>
<tbody>
<tr>
<td>Capacity</td>
<td>20g</td>
<td>50g</td>
</tr>
<tr>
<td>Readability</td>
<td>0.001g</td>
<td>0.001g</td>
</tr>
<tr>
<td>Repeatability (+)</td>
<td>0.001g</td>
<td>0.001g</td>
</tr>
<tr>
<td>Linearity (+)</td>
<td>0.001g</td>
<td>0.002g</td>
</tr>
<tr>
<td>Pan Size (mm)</td>
<td>50</td>
<td>50</td>
</tr>
</tbody>
</table>

GOLD SCALES
0.01g to 3Kg

<table>
<thead>
<tr>
<th>Models</th>
<th>CTL-303</th>
<th>CTL-602</th>
<th>CTB-1001</th>
<th>CTL-1201</th>
<th>CTL-3001</th>
</tr>
</thead>
<tbody>
<tr>
<td>Capacity</td>
<td>300g</td>
<td>600g</td>
<td>1000g</td>
<td>1200g</td>
<td>3000g</td>
</tr>
<tr>
<td>Readability</td>
<td>0.01g</td>
<td>0.01g</td>
<td>0.1g</td>
<td>0.1g</td>
<td>0.1g</td>
</tr>
<tr>
<td>Pan Size (mm)</td>
<td>115</td>
<td>115</td>
<td>125</td>
<td>125</td>
<td>150</td>
</tr>
</tbody>
</table>

SILVER SCALES
0.1g to 15Kg

- Incorporate high quality loadcells.
- Multiple weighing units, gram & carat.
- Piece counting facility.
- RS-232 bi directional interface.
- Power saving mode.
- Overload and shockload protection.
- Weight slip printing (Optional).
- Bright Red LED Display.
- High bright green LED Display (Optional).
- Battery Backup (Optional).
- Additional Display (Optional).
- Brezzi shield (Optional).

Common features for Carat, Gold & Silver Scales

<table>
<thead>
<tr>
<th>Models</th>
<th>CTM-6001</th>
<th>CTM-10001</th>
<th>CTM-15002</th>
<th>CTM-15005</th>
<th>CTT-10K1</th>
<th>CTH-15001</th>
</tr>
</thead>
<tbody>
<tr>
<td>Capacity</td>
<td>6kg</td>
<td>10kg</td>
<td>15kg</td>
<td>15kg</td>
<td>10kg</td>
<td>15kg</td>
</tr>
<tr>
<td>Readability</td>
<td>0.1g</td>
<td>0.1g</td>
<td>0.2g</td>
<td>0.5g</td>
<td>1g</td>
<td>0.1g</td>
</tr>
<tr>
<td>Repeatability (+)</td>
<td>0.1g</td>
<td>0.1g</td>
<td>0.2g</td>
<td>0.5g</td>
<td>1g</td>
<td>0.1g</td>
</tr>
<tr>
<td>Linearity (+)</td>
<td>0.2g</td>
<td>0.2g</td>
<td>0.4g</td>
<td>1.0g</td>
<td>2g</td>
<td>0.2g</td>
</tr>
<tr>
<td>Pan Size (mm)</td>
<td>190x250</td>
<td>190x250</td>
<td>190x250</td>
<td>190x250</td>
<td>190x250</td>
<td>190x250</td>
</tr>
</tbody>
</table>

Common specifications for Gem & Jewellery Scales

- Taring Range: Up to full capacity
- Response time: 3 secs
- Power Req: 90-250V, 50/60Hz, 10 Watt
- Operating Temperature: 15 to 45 deg C
SUPER MARKET SCALES

RETAIL SCALES
1g to 35Kg

<table>
<thead>
<tr>
<th>Models</th>
<th>CT-30K1</th>
<th>CT-30K2</th>
<th>CT-35K2</th>
</tr>
</thead>
<tbody>
<tr>
<td>Capacity</td>
<td>30kg</td>
<td>30kg</td>
<td>35kg</td>
</tr>
<tr>
<td>Readability</td>
<td>1g</td>
<td>2g</td>
<td>2g</td>
</tr>
<tr>
<td>Repeatability</td>
<td>1g</td>
<td>2g</td>
<td>2g</td>
</tr>
<tr>
<td>Linearity</td>
<td>2g</td>
<td>2g</td>
<td>2g</td>
</tr>
<tr>
<td>Pan Size (mm)</td>
<td>225x300</td>
<td>225x300</td>
<td>225x300</td>
</tr>
</tbody>
</table>

- Bright LED display.
- Clear and bright extra display for customer viewing at a distance.
- 100% tare facility.
- Net and Gross weight indication.
- Accumulation of weights in memory.
- RS-232 interface to connect to a computer/printer.
- Audio visual overload indication.
- Optional battery backup.

PRICE COMPUTING SCALES
1g to 35Kg

<table>
<thead>
<tr>
<th>Models</th>
<th>CTC-30K1</th>
<th>CTC-30K2</th>
<th>CTP-35K5</th>
</tr>
</thead>
<tbody>
<tr>
<td>Capacity</td>
<td>30kg</td>
<td>30kg</td>
<td>35kg</td>
</tr>
<tr>
<td>Readability</td>
<td>1g</td>
<td>2g</td>
<td>5g</td>
</tr>
<tr>
<td>Repeatability</td>
<td>1g</td>
<td>2g</td>
<td>5g</td>
</tr>
<tr>
<td>Linearity</td>
<td>2g</td>
<td>2g</td>
<td>5g</td>
</tr>
<tr>
<td>Pan Size (mm)</td>
<td>225x300</td>
<td>225x300</td>
<td>225x300</td>
</tr>
</tbody>
</table>

- Can store price of items with their names (up to 500 nos)
- Bill printing facility.
- Facility to price addition for pre-packed items.
- Facility to enter shop name and address.
- Per kg or per 100g rate selection.
- Facility to accumulate transaction data.
- Computes total sales of all items along with their weights.
- Date and Time entry facility.
- Tactile keyboard making it dust & moisture resistant for long lasting and reliable operation.
- Different displays for weight, unit price and total price.
- Display on both sides on the pole.
- Mini Printer & Label Printer (Optional)
**ADULT SCALES**

10g to 150Kg

<table>
<thead>
<tr>
<th>Models</th>
<th>CP-150K10</th>
</tr>
</thead>
<tbody>
<tr>
<td>Capacity</td>
<td>150Kg</td>
</tr>
<tr>
<td>Readability</td>
<td>10g</td>
</tr>
<tr>
<td>Pan Size</td>
<td>300x300mm</td>
</tr>
</tbody>
</table>

- Rugged construction suitable for school, gym, sports.
- Stainless Steel Pan.
- LED Display.
- Battery backup.
- Storage of weights in memory up to 100 weights.
- Rs232 interface for computer & printers.
- Multiple weighing units: Gram, Kilo gram, pound.

**KITCHEN SCALES**

0.1g to 5Kg

<table>
<thead>
<tr>
<th>Models</th>
<th>CTB-601</th>
<th>CTB-8K1</th>
</tr>
</thead>
<tbody>
<tr>
<td>Capacity</td>
<td>600g</td>
<td>5Kg</td>
</tr>
<tr>
<td>Readability</td>
<td>0.1g</td>
<td>1g</td>
</tr>
<tr>
<td>Pan Size (mm)</td>
<td>150x150</td>
<td>150x150</td>
</tr>
</tbody>
</table>

- Compact design.
- Easy carrying option.
- Battery powered.
- LCD display.
- Optional power eliminator.

**BABY WEIGHING SCALES**

5g to 20Kg

<table>
<thead>
<tr>
<th>Models</th>
<th>CTB-29K5</th>
</tr>
</thead>
<tbody>
<tr>
<td>Capacity</td>
<td>20Kg</td>
</tr>
<tr>
<td>Readability</td>
<td>5g</td>
</tr>
<tr>
<td>Pan Size (mm)</td>
<td>490 x 280</td>
</tr>
</tbody>
</table>

- Overload and shock load protection.
- Bright LED display.
- Large Pan Size.
- Pan Electrically Insulated from the scale for safety.
- Optional battery backup.
INDUSTRIAL SCALES

TABLE TOP SCALES
0.1g to 35Kg

<table>
<thead>
<tr>
<th>Models</th>
<th>CTH-10001</th>
<th>CTH-30002</th>
<th>CT-30K1</th>
<th>CT-35K2</th>
</tr>
</thead>
<tbody>
<tr>
<td>Capacity</td>
<td>15kg</td>
<td>30kg</td>
<td>35kg</td>
<td>35kg</td>
</tr>
<tr>
<td>Linearity</td>
<td>0.1g</td>
<td>0.2g</td>
<td>1g</td>
<td>2g</td>
</tr>
<tr>
<td>Pan Size (mm)</td>
<td>225 x 300</td>
<td>225 x 300</td>
<td>225 x 300</td>
<td>225 x 300</td>
</tr>
</tbody>
</table>

- Incorporate high quality loadcells
- Multiple weighing units: Gram, Kilo gram, carat, litre, pound
- Piece counting facility, up to 25 different types
- Storage of weights in memory and printing, up to 100 weights.
- Power saving mode
- Bi-directional RS232 interface to connect with computers and printers
- Set point facility up to 2 limits.
- Auto power off
- Peak hold facility (Optional).
- Date and time facility
- Multiple print options with Sr. No, date, time and weight in horizontal/vertical mode.
- Automatic zero tracking.
- User selectable Tare/Zero mode option with Net/gross facility for minimum use.
- Overload & Shock load Protection
- Bright LED display, high Bright Green LED display (optional)
- Battery backup (optional). Rechargeable sealed maintenance free battery
- Additional display (optional)

PIECE COUNTING SCALES
0.5g to 35Kg

<table>
<thead>
<tr>
<th>Models</th>
<th>CTC-6001</th>
<th>CTC-10002</th>
<th>CTC-15005</th>
<th>CTC-30K1</th>
<th>CTP-35K5</th>
</tr>
</thead>
<tbody>
<tr>
<td>Capacity</td>
<td>6kg</td>
<td>10kg</td>
<td>15kg</td>
<td>30kg</td>
<td>35kg</td>
</tr>
<tr>
<td>Linearity</td>
<td>0.1g</td>
<td>0.2g</td>
<td>0.5g</td>
<td>1g</td>
<td>5g</td>
</tr>
<tr>
<td>Pan Size (mm)</td>
<td>225x300</td>
<td>225x300</td>
<td>225x300</td>
<td>225x300</td>
<td>225x300</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Models</th>
<th>CP-75K5</th>
<th>CP-100K10</th>
<th>CP-200K20</th>
<th>CP-300K20</th>
<th>CP-500K50</th>
<th>CP-1T100</th>
</tr>
</thead>
<tbody>
<tr>
<td>Capacity</td>
<td>75kg</td>
<td>100kg</td>
<td>200kg</td>
<td>300kg</td>
<td>500kg</td>
<td>1ton</td>
</tr>
<tr>
<td>Linearity</td>
<td>0.5g</td>
<td>1g</td>
<td>2g</td>
<td>5g</td>
<td>10g</td>
<td>100g</td>
</tr>
<tr>
<td>Pan Size (mm)</td>
<td>250x400</td>
<td>450x500</td>
<td>500x600</td>
<td>600x600</td>
<td>750x750</td>
<td>1000x1000</td>
</tr>
</tbody>
</table>

- 3 separate display to indicate weight, unit weight and quantity.
- Numeric keyboard for easy entry of unit weight/sample quantity.
- Automatic count Improvement mode.
- Resettable set points for check counting.
- Comparator function with audio indication (buzzer)
- Accumulation and recalling of counts with date/time.
- Optional comparator with relay outputs.
- Print option with date/time, count and weight.
WATER PROOF TABLE TOP SCALES AND SCALES WITH WATER PROOF PLATFORM & S. S. INDICATOR
0.1g to 60kg

<table>
<thead>
<tr>
<th>Models</th>
<th>CT-300S</th>
<th>CT-6K1</th>
<th>CP-30K5</th>
<th>CP-60K10</th>
</tr>
</thead>
<tbody>
<tr>
<td>Capacity</td>
<td>3kg</td>
<td>6kg</td>
<td>30kg</td>
<td>60kg</td>
</tr>
<tr>
<td>Readability</td>
<td>0.5g</td>
<td>1g</td>
<td>5g</td>
<td>10g</td>
</tr>
<tr>
<td>Linearity (%)</td>
<td>1.0g</td>
<td>2g</td>
<td>10g</td>
<td>20g</td>
</tr>
<tr>
<td>Platform Size(mm)</td>
<td>220x290</td>
<td>220x280</td>
<td>400x400</td>
<td>400x400</td>
</tr>
</tbody>
</table>

- Available in table top and platform type.
- Optional IP 67/IP 58 SS loadcell.
- SS 202 Stainless steel construction.
- Optional SS 304 & SS 316 material.
- Loadcell totally protected from ingress of water.

PALLET SCALES
200g to 2 ton

Four loadcell based Pallet Scales

<table>
<thead>
<tr>
<th>Model</th>
<th>CPL-1T500</th>
<th>CPL-2T1K</th>
</tr>
</thead>
<tbody>
<tr>
<td>Capacity</td>
<td>1 ton</td>
<td>2 ton</td>
</tr>
<tr>
<td>Readability</td>
<td>500g</td>
<td>1Kg</td>
</tr>
</tbody>
</table>

- Optional Battery Backup.
- Overload and shock load protection.
- 100% subtractive taring range.
- Standard bi-directional RS-232 Interface.
- Audio visual overload indication.
- Piece counting, filling, printing, accumulation, weighing in multiple units.
- Available GLP compliant model in complete SS material for food, pharmaceutical industries.
PLATFORM SCALES
5g to 1 ton

Models
- CP-75K5
- CP-100K10
- CP-200K20
- CP-300KG20
- CP-500KG50
- CP-1T100

<table>
<thead>
<tr>
<th>Capacity</th>
<th>75kg</th>
<th>100kg</th>
<th>200kg</th>
<th>300kg</th>
<th>500kg</th>
<th>1ton</th>
</tr>
</thead>
<tbody>
<tr>
<td>Readability</td>
<td>5g</td>
<td>10g</td>
<td>20g</td>
<td>50g</td>
<td>50g</td>
<td>50g</td>
</tr>
<tr>
<td>Platform Size(mm)</td>
<td>400x400</td>
<td>450x500</td>
<td>600x600</td>
<td>600x600</td>
<td>750x750</td>
<td>1000x1000</td>
</tr>
</tbody>
</table>

FLOOR SCALES
200g to 5 ton

<table>
<thead>
<tr>
<th>Capacity</th>
<th>CPL-1T2T</th>
<th>CPL-2T3T</th>
<th>CPL-3T5T</th>
</tr>
</thead>
<tbody>
<tr>
<td>Readability</td>
<td>200g</td>
<td>500g</td>
<td>1kg</td>
</tr>
<tr>
<td>Platform Size(mm)</td>
<td>1200x1200</td>
<td>1500x1500</td>
<td>2000x2000</td>
</tr>
</tbody>
</table>

Common features of Platform Scales, Floor Scales & Low Profile Scales
- Indicator housed in a sturdy metal enclosure.
- Bright LED display.
- Multiple functions: Parts counting, accumulation, net/gross.
- Standard bi-directional RS-232 interface.
- Overload & shock load protection.
- Bright Red LED display.
- High bright green LED display (optional).
- Battery backup (optional).
- Rechargeable sealed maintenance free battery.

STAINLESS STEEL
LOW PROFILE SCALES
100g to 2ton

<table>
<thead>
<tr>
<th>Models</th>
<th>CPL-300KG20</th>
<th>CPL-500KG20</th>
<th>CPL-1T500</th>
<th>CPL-2T1K</th>
</tr>
</thead>
<tbody>
<tr>
<td>Capacity</td>
<td>300kg</td>
<td>500kg</td>
<td>1ton</td>
<td>2ton</td>
</tr>
<tr>
<td>Readability</td>
<td>200g</td>
<td>200g</td>
<td>500g</td>
<td>1kg</td>
</tr>
<tr>
<td>Linearity (%)</td>
<td>0.04</td>
<td>0.05</td>
<td>0.01</td>
<td>0kg</td>
</tr>
<tr>
<td>Platform Size(mm)</td>
<td>750x750</td>
<td>1000x1000</td>
<td>1000x1000</td>
<td>1200x1200</td>
</tr>
</tbody>
</table>

- Low Profile construction with S.S. ramp (Optional) to avoid pit in production area.
- Incorporates multiple number (4 nos) of high quality stainless steel IP 67/88 shear beam loadcells.
- Stainless Steel IP67 GLP compliant indicator with Real Time Clock (Optional).
- Large LCD display with white backlight.
### STANDARD CRANE SCALES

- **(0.5, 1 ton)**
- **(2, 3, 5, 10 ton)**
- **(15, 20 ton)**
- **(30, 40, 50 ton)**

<table>
<thead>
<tr>
<th>MODELS</th>
<th>CAPACITY</th>
<th>ACC</th>
</tr>
</thead>
<tbody>
<tr>
<td>CCS-500K100</td>
<td>500Kg</td>
<td>10g</td>
</tr>
<tr>
<td>CCS-1T200</td>
<td>1Ton</td>
<td>20g</td>
</tr>
<tr>
<td>CCS-2T600</td>
<td>2Ton</td>
<td>50g</td>
</tr>
<tr>
<td>CCS-3T1K</td>
<td>3 Ton</td>
<td>1Kg</td>
</tr>
<tr>
<td>CCS-5T2K</td>
<td>5 Ton</td>
<td>2Kg</td>
</tr>
<tr>
<td>CCS-10T8K</td>
<td>10 Ton</td>
<td>5Kg</td>
</tr>
<tr>
<td>CCS-15T9K</td>
<td>15 Ton</td>
<td>5Kg</td>
</tr>
<tr>
<td>CCS-20T9K</td>
<td>20 Ton</td>
<td>5Kg</td>
</tr>
<tr>
<td>CCS-30T10K</td>
<td>30 Ton</td>
<td>10Kg</td>
</tr>
<tr>
<td>CCS-40T20K</td>
<td>40 Ton</td>
<td>20Kg</td>
</tr>
<tr>
<td>CCS-50T20K</td>
<td>50 Ton</td>
<td>20Kg</td>
</tr>
</tbody>
</table>

- Rugged aluminum diecast enclosure for Models upto 20 ton.
- Steel heavy duty enclosure for Models above 20 ton.
- 25 mm height LED display for Models upto 20 ton & 38 mm height LED display for Models above 20 ton.
- Maximum safety overload 200%.
- Inbuilt sealed maintenance free re-chargable battery and Battery charger (Optional)
- RF keyboard, operating distance 20mtr. (optional)
- RS-232 Interface (Optional)
- Multiple print options with Sr. No, Date, Time & Weight in horizontal / vertical mode.
- Date & Time entry facility.
- Multiple weighing units.
- Storage of weights in memory upto 100 samples.
- Power saving by switching off the display.
- Automatic zero tracking.
- Software linearity correction.
- Display hold facility.
- Gross & Net Weight function.
STANDARD CRANE SCALES with Wireless Indicator
- Wireless transmission maximum operating distance between the Scale and Indicator is 50 mtr.
- All specifications are same as standard crane scales (CCS) except there is no display on the scale and there is no RF keyboard.
- Power indication LED on the scale.
- Battery & charger for the loadcell & transmitter inside the scale.
- Weight display on the desktop indicator along with controls.
- RS-232 interface in the indicator.
- Indicator with optional battery backup.
- Date & time entry facility.
- Storage of weights in memory up to 100 samples.
- Display hold facility.

CRANE SCALES with Heat Insulating Shield
- Special construction for high temperature shielding.
- Minimum distance for normal operation is 2 mtr from a heat radiation source at 1500°C.
- Heavy duty aluminum diecast enclosure.

<table>
<thead>
<tr>
<th>MODELS</th>
<th>CAPACITY</th>
<th>ACC</th>
</tr>
</thead>
<tbody>
<tr>
<td>CCS-1T20K</td>
<td>1Ton</td>
<td>200g</td>
</tr>
<tr>
<td>CCS-2T500</td>
<td>2Ton</td>
<td>500g</td>
</tr>
<tr>
<td>CCS-3T1K</td>
<td>3 Ton</td>
<td>1kg</td>
</tr>
<tr>
<td>CCS-5T2K</td>
<td>5 Ton</td>
<td>2kg</td>
</tr>
<tr>
<td>CCS-10T6K</td>
<td>10 Ton</td>
<td>6kg</td>
</tr>
<tr>
<td>CCS-15T5K</td>
<td>15 Ton</td>
<td>5kg</td>
</tr>
</tbody>
</table>

CRANE SCALES with Heat Insulating Shield & Wireless Indicator
- Wireless transmission maximum operating distance between the Scale and Indicator is 50 mtr.
- All specifications are same as standard crane scales with heat insulating shield (CCS) except there is no display on the scale and there is no remote keyboard.
- Power indication LED on the scale.
- Battery & charger for the loadcell & transmitter inside the scale.
- Weight display on the desktop indicator along with controls.
- RS-232 interface in the indicator.
- Storage of weights in memory up to 100 samples.

CRANE SCALES Wireless Transmission, High-temperature Thermal Insulation and Armored Type

<table>
<thead>
<tr>
<th>MODELS</th>
<th>CAPACITY</th>
<th>ACC</th>
<th>NET WT. (Kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>CCS-30T20K</td>
<td>3T000Kg</td>
<td>20K</td>
<td>370</td>
</tr>
<tr>
<td>CCS-50T50K</td>
<td>50000Kg</td>
<td>50K</td>
<td>750</td>
</tr>
</tbody>
</table>

- Special design for high-temperature thermal insulation use, with normal operation at least 2m away from heat radiation source at 1500°C.
- High-strength alloy steel.
- U-shaped structure with compression-typed sensor.
- Wireless transmission distance between scale & indicator is 50m (approx).
- Maximum safety overload : 125% F.S.
- Limited overload : 400% F.S.
WEIGHING INDICATORS

UNIVERSAL INDICATORS
- Selectable weighing capacity and least count through keyboard.
- High speed A/D conversion.
- Full digital calibration through keyboard enabling easy replacement of Indicator in the system.
- 3 point linearity correction.
- Optional Battery Back up.
- Bright LED Display.
- RS-232 Interface (optional).

BATCH WEIGHING INDICATORS
- High Speed A/D conversion.
- Full Digital calibration through keyboard enabling easy replacement of indicator in the system.
- 3 Point Linearity correction.
- Selectable weighing ranges.
- Optional Real time clock.
- Set point comparison for batching application.
- Maximum 2 NPN  N coil potential free relay contacts.
- Panel mounting or Desktop.
- Optional battery backup.
- Bright LED Display.
- RS-232 Interface (Standard).

FLAMPROOF INDICATORS
- 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.
- High Speed A/D conversion.
- Optional battery backup.
- Bright LED Display.
- Suitable port along with cable glands for the power input & loadcell connection.
- Loadcell connection through Zenner Barrier.

STAINLESS STEEL INDICATORS
- High protection grade stainless steel housing. Waterproof IP65.
- GLP compliant suitable for food, pharmaceutical industries (Optional).
- Real Time Clock (RTC) (Optional).
- S.S. 304 material (Optional).
- Large size Backlite LCD display.
- RS-232 Interface to connect to a computer/printer (Standard).

WIRELESS INDICATORS
- Fitted with radio frequency receiver for the reception of load signal from a loadcell fitted with radio frequency transmitter. Maximum distance up to 50 mtrs.
- All specifications are same as Universal Indicators.
Scales for Special Applications

Milk Bowl Weighing Systems
100 g - 500 kg

<table>
<thead>
<tr>
<th>Model</th>
<th>300K100</th>
<th>500K100</th>
</tr>
</thead>
<tbody>
<tr>
<td>Capacity</td>
<td>300 kg</td>
<td>500 kg</td>
</tr>
<tr>
<td>Accuracy</td>
<td>100 g</td>
<td>100 g</td>
</tr>
</tbody>
</table>

- Platform Scales for small milk collection centers and Bowl type scales for big Dairy Farms.
- Programmable conversion factor for kilograms to litre.
- RS-232 for computer interface.
- Rugged construction to withstand rough usage in dairy farms.
- Optional stainless steel construction.
- Optional stainless steel bowl in S.S. 304.

Ramp & Rollers
For platform scales

For ease of loading and unloading of caryons and drums filled with chemicals the platform scales are provided with ramps. Rollers on the ramps on one side or both the sides and rollers on platform of the scale. Rollers available in M.S. Material with Zinc passivation or S.S. 202 or S.S. 304 depending on the need.

Static Check
Weighing Systems

- Programmable 1 or 2 limits setting.
- Status indication - weight under, weight Ok, weight over.
- Illuminated status on tower display for clear and distant viewing.
- Red, Yellow & Green for different status indication.
- Different colours can be programmed for any status.
- Programmable blinking or permanent status indication.
- Audio indication.
- Can be offered with any type of scale.

Customised Weighing Systems

- Design and development of customized weighing requirement.
- Automation of weighing and material handling.
- Incorporation of customized software for better tracking and productivity.
- Wireless remote weighing, incase of a requirement.
**AUXILIARY DISPLAY ATTACHED TO THE BALANCE ON THE POLE**
In the scales used for trading, a second display facing opposite side of the user attached to the scale on the pole for a clear view by the customer is offered. LED or VFD display as per the provision in the scale.

**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. The auxiliary display is available in LED or VFD as per the provision in the scale.

**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 220V supply.

**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.

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

**MINI PRINTER**
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.

**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 every time when it is switched ON, change in the ambient temperature, at a preset time to recalibrate the balance.

**FLAMEPROOF JUNCTION BOX**
Flameproof own weatherproof junction box in cast aluminium with multiple ports and cable glands for inlet and outlet connection of cables 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.

**ANTI VIBRATION TABLE FOR ANALYTICAL BALANCE**
1. Anti-vibration table is ideal for R & D, testing & QC laboratories located in a setup subjected to high vibrations due to operation of machines.
2. Anti-vibration table is designed for placing analytical & lab balances used for high precision weighing.
3. Anti-vibration table top is provided with granite surface plate with high accuracy finish.
4. Damping of vibration is provided at two locations, one below the granite top surface & second at the bottom leveling feet which can also help in proper leveling of the table.
**DIGITAL FORCE MEASURING GAUGE**

Contech digital force measuring gauge is a device used for measuring axial force. This can be used as a handheld instrument or attached to a testing bench.

**Features:**
- Measures compression (push) or tension (pull) forces.
- Operates on electrical power/battery.
- RS232 serial interface for computer connection.
- Various models from 10 to 500 N.
- Measurement resolution up to 5000 counts.
- Measurement units in g, kg, N.
- Peak hold functions.
- Incorporates high-quality load cells.
- Calibration facility (Optional).
- Storage facility for 100 data.
- Set point facility.

**BOTTLE CAP TORQUE TESTER**

Contech bottle torque tester is used for measuring the torque required to open the cap of bottles.

**Features:**
- Operates on electrical power/battery.
- RS232 serial interface for computer connection.
- Capacity: 0~1000N cm/10 N·m
- Units: Kg·cm/N·m
- Bottle diameter: up to 200mm
- Accuracy: ±0.5%
- Over load safety.
- Peak hold function.
- Backlite LCD display.
- Calibration facility (Optional).
- Storage facility for 100 data.

**DIGITAL SPRING TESTER**

Contech Spring tester is used for checking the spring in tension & compression modes.

**Features:**
- Measures compression (push) or tension (pull) forces.
- Operates on electrical power/battery.
- RS232 serial interface for computer connection.
- Capacity: up to 30Kg/
- Units: Kg/cm/N·m
- Universal, compression & tension type.
- Accuracy: ±0.5%
- Accessories: compression pad or tension hooks.
- Peak hold function.
- Bright LED display.
- Display: Force & deflection.
- Calibration facility (Optional).
- Force applying through rotating wheel.
- Storage facility for 100 data.
To obtain the best accuracy from precision balances, the balances need to be frequently calibrated using precision standard weights. Contech offers Brass & Stainless calibrated weights. Weights are available in cylindrical configuration.

Standard weight box of range 1mg to 200 grams come in attractive, sturdy polished wooden/plastic cases.

Certification Service for the Standard Weights are offered from NABL Accredited Certification Laboratories with traceability to NPL Standards.

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

<table>
<thead>
<tr>
<th>NOMINAL VALUE</th>
<th>MAXIMUM PERMISSIBLE ERRORS FOR WEIGHTS (in mg)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Class E1</td>
</tr>
<tr>
<td>6000 kg</td>
<td>25 000</td>
</tr>
<tr>
<td>2000 kg</td>
<td>10 000</td>
</tr>
<tr>
<td>1000 kg</td>
<td>1 600</td>
</tr>
<tr>
<td>500 kg</td>
<td>800</td>
</tr>
<tr>
<td>200 kg</td>
<td>300</td>
</tr>
<tr>
<td>100 kg</td>
<td>160</td>
</tr>
<tr>
<td>50 kg</td>
<td>25</td>
</tr>
<tr>
<td>20 kg</td>
<td>10</td>
</tr>
<tr>
<td>10 kg</td>
<td>5</td>
</tr>
<tr>
<td>5 kg</td>
<td>2.5</td>
</tr>
<tr>
<td>2 kg</td>
<td>1</td>
</tr>
<tr>
<td>1 kg</td>
<td>0.5</td>
</tr>
<tr>
<td>500 g</td>
<td>0.25</td>
</tr>
<tr>
<td>200 g</td>
<td>0.1</td>
</tr>
<tr>
<td>100 g</td>
<td>0.05</td>
</tr>
<tr>
<td>50 g</td>
<td>0.03</td>
</tr>
<tr>
<td>20 g</td>
<td>0.025</td>
</tr>
<tr>
<td>10 g</td>
<td>0.02</td>
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<tr>
<td>5 g</td>
<td>0.015</td>
</tr>
<tr>
<td>2 g</td>
<td>0.012</td>
</tr>
<tr>
<td>1 g</td>
<td>0.01</td>
</tr>
<tr>
<td>500 mg</td>
<td>0.005</td>
</tr>
<tr>
<td>200 mg</td>
<td>0.005</td>
</tr>
<tr>
<td>100 mg</td>
<td>0.005</td>
</tr>
<tr>
<td>50 mg</td>
<td>0.004</td>
</tr>
<tr>
<td>20 mg</td>
<td>0.003</td>
</tr>
<tr>
<td>10 mg</td>
<td>0.003</td>
</tr>
<tr>
<td>5 mg</td>
<td>0.003</td>
</tr>
<tr>
<td>2 mg</td>
<td>0.003</td>
</tr>
<tr>
<td>1 mg</td>
<td>0.003</td>
</tr>
</tbody>
</table>
MULTIPARAMETER METER
CMPM-01

Specifications:

<table>
<thead>
<tr>
<th>Measurement Parameters</th>
<th>Range</th>
<th>Accuracy</th>
<th>ATC</th>
<th>Electrodes</th>
</tr>
</thead>
<tbody>
<tr>
<td>pH</td>
<td>0-14pH</td>
<td>±0.02pH</td>
<td>0-10°C</td>
<td>EPH-P01</td>
</tr>
<tr>
<td>mV</td>
<td>1999mV</td>
<td>±1mV</td>
<td>0-10°C</td>
<td>EPH-P01</td>
</tr>
<tr>
<td>Conductivity</td>
<td>0-200mS/cm</td>
<td>±1% FS</td>
<td></td>
<td>ECNS31</td>
</tr>
<tr>
<td></td>
<td>(5-80mS/cm)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>(200-2000mS/cm)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>(2000-4000mS/cm)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>(4000-20000mS/cm)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Resistivity</td>
<td>0-100MΩcm</td>
<td></td>
<td>0-50°C</td>
<td>ECONS31</td>
</tr>
<tr>
<td>TDS</td>
<td>0-100ppt (g/l)</td>
<td></td>
<td>0-50°C</td>
<td>ECONS31</td>
</tr>
<tr>
<td>Salinity</td>
<td>0-100ppt</td>
<td></td>
<td>0-50°C</td>
<td>ECONS31</td>
</tr>
<tr>
<td>DO</td>
<td>0-40.00mg/Lppm</td>
<td>±1% FS</td>
<td>0-40°C</td>
<td>EDO01</td>
</tr>
<tr>
<td>Temp</td>
<td>-10.0°C - 110.0°C</td>
<td>±0.5°C</td>
<td></td>
<td>ETS01</td>
</tr>
</tbody>
</table>

Features:

- pH, mV, Conductivity, Resistivity, TDS, Salinity, DO, Temperature modes.
- Automatic or Manual temperature Compensation.
- 3 point pH calibration.
- Automatic buffer recognition.
- 1 point conductivity calibration for the entire range.
- Dissolved oxygen electrode with 0.1ppm measurement resolution.
- Automatic air pressure compensation for DO with the help of air pressure sensor.
- Polarographic type DO electrode offers short polarization time, quick response and precise measurements.
- Bi directional RS-232 interface. Baud rate selectable from 1200, 2400, 4800 and 9600.
- Single and continuous print out of measuring parameters.
- Multiple Printout types. Combinations selectable from Sr. No., pH, mV, conductivity, TDS, Salinity, DO, Date, time and temperature.
- Real Time Clock
- Calibration report as per GLP requirements.
- Electrode Slope and mV offset display.
- LCD display with Backlight.
- Memory storage of 100 measurements.
- Data logging facility up to 500 results. Data logging interval selectable from 6s, 10s, 20s, 30s, 1m, 2m and 5m.
- Temperature calibration with respect to solution of known temperature.

Magnetic Stirrer: ADA-01 Optional
For proper performance of DO Meter, Magnetic Stirrer is must.
LAB pH METERS
CpH-102 & CpH-103

Specifications:

<table>
<thead>
<tr>
<th>Model</th>
<th>CpH-102</th>
<th>CpH-103</th>
</tr>
</thead>
<tbody>
<tr>
<td>pH Range</td>
<td>0~14pH</td>
<td>0~14pH</td>
</tr>
<tr>
<td>pH Resolution</td>
<td>0.01pH</td>
<td>0.001pH</td>
</tr>
<tr>
<td>pH Accuracy</td>
<td>±0.02pH</td>
<td>±0.02pH</td>
</tr>
<tr>
<td>Temperature compensation</td>
<td>Automatic or Manual</td>
<td>Automatic or Manual</td>
</tr>
<tr>
<td>Temperature range</td>
<td>&gt;10°C</td>
<td>&gt;10°C</td>
</tr>
<tr>
<td>mV Range</td>
<td>0~1999mV</td>
<td>0~1999mV</td>
</tr>
<tr>
<td>mV Resolution</td>
<td>1mV</td>
<td>0.1mV</td>
</tr>
<tr>
<td>mV Accuracy</td>
<td>±1mV</td>
<td>±0.5mV</td>
</tr>
<tr>
<td>Electrode</td>
<td>pH combination electrode with built in temperature sensor, Plastic-EP1P00</td>
<td>pH combination electrode, Glass-EPH-G04</td>
</tr>
<tr>
<td>Temperature Electrode</td>
<td>Built in</td>
<td>Temperature sensor electrode</td>
</tr>
</tbody>
</table>

CONDUCTIVITY METER
CC-01

Specifications:

| Measurement Range | Conductivity : 0~20.0mS/cm spread into 6 ranges 0.00~20.00mS/cm, 20.01~200.00mS/cm, 200.01~2000.00mS/cm, 2000.01~20000.00mS/cm, 20000.01~200000.00mS/cm |
| Resistance : 0~1000MΩ (Ω) | Salinity : 0~100ppt (g/L) |
| Temperature : -10.0 ~ 110.0°C |
| Precision | Conductivity : ±1% FS |
| Temperature : ±0.5°C |
| ATC | ±50°C |
| Display | Backlit LCD |
| Power | 9V 500 mA, External adaptor or battery backup unit (Optional) |
| Operating Temperature | 15~65°C |
| Meter Dimensions (mm) | 150 (L) x 150 (D) x 60 (H) |
| Motor Weight | 700 g |
| Electrode | Conductivity electrodes - ECNG01 (K=1.0), Electrode with = 3.1 or 10 Optional |
| Temperature sensor electrode - ET501 |

DISSOLVED OXYGEN METER
CDO-01

Specifications:

| Measurement Range | DO : 0~20.00mg/L (ppm), 0~100.0% |
| Precision | DO : ±1% FS |
| Temperature : 0 ~ 45°C |
| Temperature correction | Automatic ±2°C |
| Automatic 0~45ppt |
| Automatic 0~100Pa |
| Display | Backlit LCD |
| Power | 9V 500 mA, External adaptor or battery backup unit (Optional) |
| Operating Temperature | 15~45°C |
| Meter Dimensions (mm) | 165 (L) x 110 (D) x 69 (H) |
| Motor Weight | 700 g |
| Electrode | DO electrode - EDO01 |
| Magnetic Stirrer | CMS-01 (Optional) |

For proper performance of DO Meter, Magnetic Stirrer is must.
**ORP METER**
**COR-01**

**Specifications:**
- **ORP Range:** ±2000mV
- **Temperature range:** 0–100°C
- **ORP Resolution:** ±1mV
- **ORP Accuracy:** ±1mV
- **Temperature compensation:** Automatic or Manual
- **Input Resistance:** >1x10^11Ω
- **Display:** Backlit LCD, Character height: 2.3 cm
- **Power:** 6V, 540mA External adapter or battery backup unit (Optional)
- **Operating Temperature:** 15–55°C
- **Meter Dimensions (mm):** 155 (L) x 92 (W) x 60 (H)
- **Meter Weight:** 700 g
- **ORP Electrode:** ORP Combination Electrode EORP-01
- **Temperature Electrode:** ET301

*For pH measurements, pH electrode (Optional) should be used. However, the instrument has to be recalibrated with pH electrode using pH standard solutions.*

**DUAL PARAMETER METERS**

**pH/Conductivity Meter-CpHC**
**pH,rH, mV, µS, mg/L ppm/C**
**pH, Cond. & temp. electrodes**

**pH / Dissolved Oxygen Meter-CpHDO**
**pH,mV,µS,mg/L ppm/C**
**pH, DO, temp. electrodes**

**Conductivity / Dissolved Oxygen-CCDO**
**mS,µS,mg/L ppm/C**
**Cond., DO, temp. electrodes**

**Common Specifications:**
- **Power:** 9V, 50mA External adapter
- **Operating Temp.:** 15–50°C
- **Meter Dim. (mm):** 165 (L) x 120 (W) x 60 (H)
- **Meter Weight:** 700 g

**ELECTRODES**

**ELECTROCHEMICAL ELECTRODES**

<table>
<thead>
<tr>
<th>Electrode</th>
<th>Model</th>
<th>Specifications</th>
</tr>
</thead>
<tbody>
<tr>
<td>pH comb. - Plastic</td>
<td>EP01</td>
<td>Plastic housing, Ceramic Junction, 0–80°C Temp. range, BNC Connector, Size: 120 x 160mm</td>
</tr>
<tr>
<td>pH comb. with built-in temperature sensor</td>
<td>EP02</td>
<td>Plastic housing, Ceramic Junction, 0–80°C Temp. range, BNC Connector, Size: 120 x 160mm</td>
</tr>
<tr>
<td>pH comb. - Glass</td>
<td>EGH04</td>
<td>Glass body pH&lt;80°C Temp range, glass ground joint, BNC Connector, Size: 120 x 160mm</td>
</tr>
<tr>
<td>Conductivity</td>
<td>ECGN-01</td>
<td>0.01 µS/cm, 25°C ± 0.5°C range, 1 (µS/cm) ± 1% constant, BNC Connector, Size: 120 x 160mm Pt plate sensitive element (coated with Pt black)</td>
</tr>
<tr>
<td>Temperature Sensor</td>
<td>ETS-01</td>
<td>-15 to 110°C, 3 Ω x 15±5m, Customized Connector</td>
</tr>
<tr>
<td>Dissolved Oxygen with built-in temperature sensor</td>
<td>EDO-01</td>
<td>Polarographic, Size: 150 x 160mm, polarization time: 5–6 mins round shell connector</td>
</tr>
<tr>
<td>ORP Combination Plastic</td>
<td>EORP-01</td>
<td>Plastic housing, Ceramic Junction, BNC Connector, Sensitive element: 1 mm Ø 20mm Pt pin, Size: 120 x 160mm</td>
</tr>
</tbody>
</table>

**ACCESSORIES for Electro Chemical Instruments**

- Magnetic Stirrer: CMS-01
- Electrode Holder: EH-01
- Printer: CMP-01
- Power Supply: SMPS-04
- Stirr Bead: SB-01
- Battery Backup: BBEC-01
- Calibration Solutions: pH: 4.0, 7.0, 9.2, Conductivity: 14-15 µS/cm
- DC: 0, ± zero level solution
- ORP: 86mV, 250mV, 475mV
- TD5: 300ppm, 1000ppm, 3000ppm
MAGNETIC STIRRER
CMS-01

Features:
- Maximum Stirring Quantity: 3 ltrs water
- Microprocessor speed controller guarantees speed accuracy.
- Speed setting possible only while the stirring is off.
- LCD with backlit displays for set and actual speed.
- Stirring Speed range: 100–1500rpm with load
- Speed resolution: 1rpm
- Speed Setting Increment: 1rpm
- Stirrer Plate Top: Stainless steel
- Stirrer plate diameter: 135mm

Specifications:
- Dimension (mm): 185 (W) x 330 (L) x 110 (H)
- Weight: 2Kg approx
- Power supply: 100–250 V AC, 50/60 Hz, 20 Watt

MAGNETIC STIRRER
CMS-02

Features:
- Maximum Stirring Quantity: 10 litre water
- Microprocessor speed controller guarantees speed accuracy.
- Speed setting possible only while the stirring is off.
- LCD with backlit displays for set and actual speed.
- Stirring Speed range: 100–1500rpm with load
- Speed resolution: 1rpm
- Speed Setting Increment: 1rpm
- Stirrer Plate Top: Stainless steel
- Stirrer plate diameter: 135mm

Specifications:
- Dimension (mm): 205 (W) x 335 (L) x 130 (H)
- Weight: 4.5Kg approx
- Power supply: 100–250 V AC, 50/60 Hz, 20 Watt

MAGNETIC STIRRER
CMS-03

Features:
- Maximum Stirring Quantity: 20 litre water
- Microprocessor speed controller guarantees speed accuracy.
- Speed setting possible only while the stirring is off.
- LCD with backlit displays for set and actual speed.
- Stirring Speed range: 100–1500rpm with load
- Speed resolution: 1rpm
- Speed Setting Increment: 1rpm
- Stirrer Plate Top: Stainless steel
- Stirrer plate diameter: 185 X 185 (mm)

Specifications:
- Dimension (mm): 205 (W) x 335 (L) x 130 (H)
- Weight: 4.5Kg approx.
- Power supply: 100–250 V AC, 50/60 Hz, 20 Watt
### MAGNETIC STIRRER WITH HEATING

**CMS-01H**

**Features:**
- Maximum temperature: 280°C. (Actual liquid temperature is lesser than the work plate temperature)
- Maximum Stirring Quantity: 3 litre water
- Backlit LCD with display of measuring parameters.
- Display shows set & actual temperature & speed.
- Provision for °C & °F temperature unit.
- Inbuilt temperature sensor for the temperature setting & display.
- Optional external temperature sensor for setting & measurement of liquid temperature with external control indication on display.
- Inbuilt temperature safety cut off.
- Temperature resolution: 1°C
- Temp. Setting Increment: 1°C
- Temperature control accuracy of work plate: ±0.5°C
- Temperature control accuracy with external temperature probe: ±0.5°C
- Maximum Stirring Speed: 1500rpm
- Speed Resolution: 1rpm
- Speed Setting Increment: 1rpm
- Stirrer Plate Top: Stainless steel
- Base Diameter: 135 mm

**Specifications:**
- Dimension (mm): 165 (W) X 230 (L) X 110 (H)
- Weight: 2 Kg approx.
- Heater Power: 500W
- Power supply: 220–240 V AC, 50/60 Hz, 520 Watt

### MAGNETIC STIRRER WITH HEATING

**CMS-02H**

**Features:**
- Maximum temperature: 340°C. (Actual liquid temperature is lesser than the work plate temperature)
- Maximum Stirring Quantity: 5 litre water
- Backlit LCD with display of measuring parameters.
- Display shows set & actual temperature & speed.
- Provision for °C & °F temperature unit.
- Inbuilt temperature sensor for the temperature setting & display.
- Optional external temperature sensor for setting & measurement of liquid temperature with external control indication on display.
- Inbuilt temperature safety cut off.
- Temperature resolution: 1°C
- Temp. Setting Increment: 1°C
- Temperature control accuracy of work plate: ±0.5°C
- Temperature control accuracy with external temperature probe: ±1°C
- Maximum Stirring Speed: 1500rpm
- Speed Resolution: 1rpm
- Speed Setting Increment: 1rpm
- Stirrer Plate Top: Stainless steel
- Base Diameter: 135 mm

**Specifications:**
- Dimension (mm): 205 (W) X 335 (L) X 130 (H)
- Weight: 4.5 Kg approx.
- Heater Power: 500W
- Power supply: 220–240 V AC, 50/60 Hz, 520 Watt
MAGNETIC STIRRER WITH HEATING
CMS-03H

Features:
- Maximum temperature : 550°C (Actual liquid temperature is lesser than the work plate temperature)
- Maximum Stirring Quantity : 10 litre water
- Aluminium diecast enclosure for excellent chemical & thermal resistance.
- Glass ceramic work plate for high temperature & chemical resistance and easy to clean.
- Brushless DC motor for long life & maintenance free operation.
- Backlite LCD with display of measuring parameters.
- Display shows set & actual temperature & speed.
- Inbuilt temperature sensor for the temperature setting & display.
- Optional external temperature sensor for setting & measurement of liquid temperature with external control indication on display.
- Inbuilt temperature safety cut off
- Temperature resolution : 1°C
- Temp. Setting Increment : 5°C
- Temperature control accuracy of work plate : ±10°C
- Temperature control accuracy with external temperature probe : ±5°C
- Maximum Stirring Speed : 1500rpm
- Speed Resolution : 1rpm
- Speed Setting Increment : 10rpm
- Work Plate Dimension : 185 x 185 mm

Specifications:
- Dimension (mm) : 205 (W) X 335 (L) X 130 (H)
- Weight : 4.6Kg approx.
- Heater Power : 1000W
- Power supply : 220–240 V AC, 50/60 Hz, 1050 Watt

MULTI STATION MAGNETIC STIRRER WITH HEATING
CMS-10H

Features:
- High performance multi station magnetic stirrer with heating.
- 10 station position with uniform temperature distribution.
- Micropersonor speed controller guarantees speed accuracy.
- Backlite LCD display for temperature & speed indication.
- Brushless DC motor for maintenance free & noiseless operations.
- Inbuilt temperature safety cutoff.
- Stainless steel anti corrosion top.
- Work Plate Dimension : 200 x 470 (mm)
- Maximum stirring Quantity : 400ml in each position.
- Maximum Stirring Speed : 1100rpm
- Temperature range of work plate : Ambient to 120°C
  (Actual liquid temperature is lesser than the work plate temperature)

Specifications:
- Dimension (mm) : 205(W) X 610(L) X 85 (H).
- Weight : 4Kg approx.
- Heater Power : 480 W
- Power supply : 220–240 V AC, 50/60 Hz, 500 Watt
ORBITAL SHAKER
CLS-910
Features:
- Orbital Shaker
- Speed & time adjustment
- Backlit display for viewing speed & time
- Platform options for different types of glasswares
- Brushless DC motor for maintenance free operation & long life
- Overspeed protection
- Designed for continuous or time based operation

Specifications:
- Orbit Dimension: 10mm
- Maximum load with platform: 7.5 kg
- Speed Range: 100-800 rpm
- Time: 1-1200min.
- Dimension (mm): 355 (W) x 420 (L) x 215 (H)
- Weight: 15kg
- Power supply: 100~250 V AC, 50/60 Hz, 30 Watt

ROCKING SHAKER
CLS-92R
Features:
- See-Saw rocking motion
- Speed & time adjustment
- Backlit display for viewing speed & time
- Platform options for different types of glasswares
- DC motor for reliable operation

Specifications:
- Tit angle: 9 degree
- Maximum Load Capacity with platform: 10kg
- Speed Range: 10-70rpm
- Time setting range: 1-1200min.
- Dimension (mm): 355 (W) x 420 (L) x 180 (H)
- Weight: 10kg
- Power supply: 100~250 V AC, 50/60 Hz, 50 Watt

3D SHAKER
CLS-93D
Features:
- Gentle three dimensional motion shaker
- Speed & time adjustment
- Backlit display for viewing speed & time
- Platform options for different types of glasswares
- DC motor for reliable operation

Specifications:
- Tit angle: 9 degree
- Maximum Load Capacity: 5kg
- Speed Range: 10-70rpm
- Time setting range: 1-1200min.
- Dimension (mm): 355 (W) x 420 (L) x 190 (H)
- Weight: 10kg
- Power supply: 100~250 V AC, 50/60 Hz, 50 Watt
DIGITAL TUBE ROLLER
CTR-01

Features:
- Provides gentle rocking & rolling motion.
- Rocking & rolling motion for complete mixing.
- Six no. easy changing rollers.
- Design for continuous or time based operation.
- DC motor for reliable operation.

Specifications:
- Amplitude: 24mm
- Maximum Load Capacity: 4kg
- Speed Range: 10-70rpm
- Time setting range: 1~120min.
- Dimension (mm): 250 (W) x 460 (L) x 110 (H)
- Weight: 5kg
- Power supply: 100~250 V AC, 50/60 Hz, 30 Watt

DIGITAL ROTATOR
CLR-01

Features:
- Rotor is provided with 2 different types of tube holders.
- In 1st option rotor is supplied with roller type holder for tubes.
- In 2nd option rotor is supplied with disc holder for tubes & the disc angle can be set from 0~90degree.
- Different options of holding accessories.
- Speed & time adjustment.
- LCD with backlight displays time and speed.
- DC motor for reliable operation.
- Designed for continuous or time based operation.

Specifications:
- Tilt angle: 90degree
- Speed Range: 10-70rpm
- Timer: 1~120min.
- Dimension (mm): 195 (W) x 190 (L) x 250 (H)
- Weight: 8kg
- Power supply: 100~250 V AC, 50/60 Hz, 40 Watt

1st option with roller tube holder
Dimension (mm): 200 (W) x 515 (L) x 280 (H)

2nd option with disc tube holder
Dimension (mm): 196 (W) x 279 (L) x 360 (H)
**DIGITAL POLARIMETERS**

**CDP-001**
- Based on optical null principle.
- Large Backlite LCD screen.
- Calculation of average & RMS value.
- RS-232 Interface.
- Measurement of dark sample up to 1% transmittance.
- Various types of sample tubes, sample tube length 106 mm and 200mm.
- Measures optical rotation, specific rotation, concentration and sugar content.
- Software for computer interface (optional).

<table>
<thead>
<tr>
<th>Light source</th>
<th>Infrared LED</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wavelength</td>
<td>586.44nm</td>
</tr>
<tr>
<td>Modulator Measuring Range</td>
<td>Faraday magnet optical modular.</td>
</tr>
<tr>
<td>Optical Rotation</td>
<td>±45° ~ ±45°</td>
</tr>
<tr>
<td>International Sugar Scale</td>
<td>±12° to ±12° Z</td>
</tr>
<tr>
<td>Accuracy Optical Rotation</td>
<td>±(0.001° ± measuring value x 0.05%)</td>
</tr>
<tr>
<td>International Sugar Scale</td>
<td>±(0.03% ± measuring value x 0.03%)</td>
</tr>
<tr>
<td>Minimum transmittance of sample</td>
<td>1%</td>
</tr>
<tr>
<td>Power Supply</td>
<td>230V, ±10% AC, 50/60 Hz</td>
</tr>
<tr>
<td>Dimensions</td>
<td>600mm x 320mm x 240mm</td>
</tr>
<tr>
<td>Weight</td>
<td>50kg</td>
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</tbody>
</table>

**DIGITAL ABBE REFRACTROMETERS**

**CAR-02**
- Measurement of refractive index of transparent, translucent liquids and solid substances.
- Measurement of percentage of solids in sugar solution (brix).
- Automatic temperature correction of brix.
- RS-232 Interface.
- Backlite LCD.
- Prism made of hard glass.
- Software for computer interface (optional).

<table>
<thead>
<tr>
<th>Measuring Range</th>
<th>Refractive Index nD: 1.2000 to 1.7000</th>
</tr>
</thead>
<tbody>
<tr>
<td>Brix</td>
<td>0 to 95%</td>
</tr>
<tr>
<td>Brix-TC</td>
<td>0 to 95%</td>
</tr>
<tr>
<td>Accuracy</td>
<td>Refractive Index nD: ±/0.0002</td>
</tr>
<tr>
<td>Brix</td>
<td>±/0.1%</td>
</tr>
<tr>
<td>Range of temperature display</td>
<td>0 to 50°</td>
</tr>
<tr>
<td>Range of temperature correction of Brix value</td>
<td>15 to ±5°</td>
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<tr>
<td>Power Supply</td>
<td>220V ±10%, 50Hz</td>
</tr>
<tr>
<td>Dimension</td>
<td>330x180x380mm</td>
</tr>
<tr>
<td>Weight</td>
<td>10 kg</td>
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</tbody>
</table>

**DIGITAL MELTING POINT APPARATUS**

**CDMP-300**
- Photo Electric detection.
- Large Backlite LCD display.
- RS-232 Interface.
- Measurement of 3 samples simultaneously. (Optional)
- Calculation of average value of initial and final melting points.
- Platinum resistor sensor for the precise temperature measurement.
- Capillary sample tube as stipulated by pharmacopeia.
- Software for computer interface (optional).

<table>
<thead>
<tr>
<th>Measuring Range of Melting point</th>
<th>Ambient to 300°C</th>
</tr>
</thead>
<tbody>
<tr>
<td>Resolution</td>
<td>0.1°C/min</td>
</tr>
<tr>
<td>Rate of heating (°C/min)</td>
<td>0.0, 0.5, 1, 1.5, 2, 3, 4, 5</td>
</tr>
<tr>
<td>Accuracy</td>
<td>±0.8°C up to 20°C, ±0.6°C from 20°C to 300°C</td>
</tr>
<tr>
<td>Heating time (60 to 300°C)</td>
<td>3 mins</td>
</tr>
<tr>
<td>Cooling time (300 to 50°C)</td>
<td>5 mins</td>
</tr>
<tr>
<td>Capillary sample tube size</td>
<td>OD 1.4mm, ID 1mm</td>
</tr>
<tr>
<td>Power Supply</td>
<td>220V ±10%, 50Hz, 100Watt</td>
</tr>
<tr>
<td>Dimensions</td>
<td>400 x 280 x 210mm</td>
</tr>
<tr>
<td>Weight</td>
<td>12.5 kg</td>
</tr>
</tbody>
</table>
XRF is used to detect and analyze noble metals like Gold (Au), Silver (Ag), Platinum (Pt), Palladium (Pd), Rhodium (Rh), Ruthenium (Ru), Iron (Fe), Cobalt (Co), Copper (Cu), Zinc (Zn), Nickel (Ni), Cadmium (Cd), Indium (In), Tin (Sn), Cadmium (Cd), Indium (In), Tin (Sn), in the Jewelry Industry.

Energy dispersive X-ray fluorescence (EDXRF) technique relies on the detector and the detection circuit capability to resolve spectral peaks due to different energy X-rays emitted when a primary X-ray beam strikes a metal alloy corresponding to different elements in the sample. Intensity of the spectrum radiation proportional to the concentration of element. The spectrum is then processed through the powerful computer software which calculates and reports the various elements & their composition in the sample.

XRF Gold Purity Tester consists of X-Ray tube, high voltage power supply for X-Ray source, X-Ray tube filer. X-Ray fluorescence Detector, processing electronics and system interface & an external computer. A camera is incorporated in the system to view the sample on the computerscreen.

XRF is a reference technique, hence standards are required for quantitative results. Standards are analyzed, spectral intensities generated are used to obtain a intensity v's concentration plot for calibration. This calibration is used to evaluate the spectral intensities of unknown samples.

**GAS PROPORTIONAL XRF DETECTOR CGX-101**

![GAS PROPORTIONAL DETECTOR CGX-101](image)

**Specifications:**

- **Detected elements:** Iron (Fe), Cobalt (Co), Nickel (Ni), Copper (Cu), Zinc (Zn), Ruthenium (Ru), Rhodium (Rh), Palladium (Pd), Silver (Ag), Cadmium (Cd), Indium (In), Tin (Sn), Copper (Cu), Iron (Fe), Gold (Au)
- **Measurement Results:**
  - Cu (Combined with Fe, Co, Ni, Zn)
  - Ag (Combined with Ru, Rh, Pd, Cd, In, Sn)
  - Au (Combined with Cu, Ni, Pt)
- **Accuracy of measurement:**
  - ±0.3% (Molten Metal above 90% Au)
  - ±0.5% (Molten Metal below 50% Au)
  - ±1% (Molten Metal below 50% Au)
- **Sensor:** Gas Proportional Counter
- **Cooling for Detector:** Air
- **Elevation Range:** 15°—90.9°
- **Testing Time:** 30—200 sec
- **Test Spot Area:** 0.3mm
- **Power Supply:** 200—240V AC, 50/60Hz
- **Power Rating:** 136 Watt
- **Working Temperature:** 15-25°C
- **Relative Humidity:** <70%
- **Operation atmosphere:** Vibration free surface and air conditioned room
- **Interface for Computer:** Usb (External Monitor, Keyboard required)
- **Software for Operation:** Menu Driver User Friendly Operating System
- **Dimensions of Instrument:**
  - Length: 450mm
  - Width: 330mm
  - Height: 385mm (with test compartment cover in closed position) & 605mm (in open position)
- **Dimensions of Sample Chamber:**
  - Length: 320mm
  - Width: 230mm
  - Height: 80mm
- **Net Weight:** 30kg

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**Note:** This is an excerpt from a technical document discussing XRF (X-ray fluorescence) analysis and a specific model of a gas proportional XRF detector. The specifications listed provide details about the detector’s operation, accuracy, and operational conditions.
**SILICON - PIN XRF DETECTOR CGX-102**

**Specifications:**
- Detectable elements: Titanium to Uranium
- Measurement Results: Iron (Fe), Cobalt (Co), Nickel (Ni), Copper (Cu), Zinc (Zn), Ruthenium (Ru), Rhodium (Rh), Palladium (Pd), Silver (Ag), Cadmium (Cd), Indium (In), Tin (Sn), Osmium (Os), Iridium (Ir), Platinum (Pt), Gold (Au)
- All metals separately
- Accuracy of measurement:
  - ±0.1% (Metallic Metal above 99.9% Au)
  - ±0.5% (Metallic Metal below 99% Au)
  - ±0.3% (Non-Metallic Metal below 95% Au)
- Sensor: Silicon-Pin Diode (Silicon Drift Semiconductor or CGX-100)
- Cooling for Detector: Thermoelectric
- Detection Range: 0.1% — 99.9%
- Testing Time: 30 — 260 secs
- Test Spot Area: 0.1mm
- Power Supply: 90-240V AC, 50/60Hz
- Power Rating: 30 Watt
- Working Temperature: 15-25°C
- Relative humidity: <70%
- Operation atmosphere: Vibration free surface and air conditioned room
- Interface for Computer: Intuitive (External Computer required)
- Software for Operation: Menu Driven User Friendly Operating System
- Dimensions of Instrument:
  - Length: 355mm
  - Width: 275mm
  - Height: 713mm (with test compartment cover in closed position) & 339mm (in open position)
- Dimensions of Sample Chamber:
  - Length: 239mm
  - Width: 159mm
  - Height: 80mm
- Net Weight: 12kg

**SILICON DRIFT DETECTORS CGX-103**

**Specifications:**
- Detectable elements: Titanium to Uranium
- Measurement Results: Iron (Fe), Cobalt (Co), Nickel (Ni), Copper (Cu), Zinc (Zn), Ruthenium (Ru), Rhodium (Rh), Palladium (Pd), Silver (Ag), Cadmium (Cd), Indium (In), Tin (Sn), Osmium (Os), Iridium (Ir), Platinum (Pt), Gold (Au)
- All metals separately
- The accuracy of measurement is better than 0.1%
- Sensor: Silicon-Pin Diode
- Cooling for Detector: Thermoelectric
- Detection Range: 0.1% — 99.9%
- Testing Time: 30 — 260 secs
- Test Spot Area: 0.1mm
- Power Supply: 90-240V AC, 50/60Hz
- Power Rating: 30 Watt
- Working Temperature: 15-25°C
- Relative humidity: <70%
- Operation atmosphere: Vibration free surface and air conditioned room
- Interface for Computer: Intuitive (External Computer required)
- Software for Operation: Menu Driven User Friendly Operating System
- Dimensions of Instrument:
  - Length: 355mm
  - Width: 275mm
  - Height: 713mm (with test compartment cover in closed position) & 339mm (in open position)
- Dimensions of Sample Chamber:
  - Length: 239mm
  - Width: 159mm
  - Height: 80mm
- Net Weight: 12kg

All specifications are same except the sensor which is Silicon Drift Detector.
HANDHELD DETECTORS (Si-PIN / SDD) CGX-104

For Portable Applications

Handheld X-ray analyzer works on a rechargeable 7.2V Li-ion battery with a backup period of 8 hours under normal use. XRF analyzer has a detectable range from Ti to U. CGX-104 operates under control of the HP IPaq PDA with a high-resolution touch-screen display. The optional lab stand allows using of handheld analyzer as a tabletop instrument under PC or laptop control.

Specifications:
- X-ray tube: Tungsten anode, 40 kV, 100 µA with 5 filter positions
- Detector type: solid state Si-Pin-dode with thermo-electrical cooling (orthogonal SDD)
- Active area: 6 mm²
- Energy resolution: <165 eV at 5.9 keV (<145 eV for SDD)
- Display: High resolution 4 inch color touch-screen
- Supported operating systems: Windows CE/Mobile for PDA
- Battery Operation Time: Up to 8 hours
- Dimensions: 242 mm (L) x 78 mm (W) x 230 mm (H)
- Weight (with battery): 1230 g (1440 g)

How to get best results from XRF Spectrometer:
- XRF is a reference method, proper standardization of the equipment is required for accurate results.
- In order to get most appropriate results, testing at different points is necessary especially when the jewellry design is intricate.
- Adequate warm-up period, steady working surface, stable power supply, proper grounding, and conditioned atmosphere is required to achieve the best productivity.
- For powder sample, proper grinding of sample minimizes the scattering effect.
- For solid sample, surface polishing minimizes the scattering effect.
- Flat surface of the sample yields the best results.
- Due to different melting points, atomic structure and crafting techniques, not all the elements can be melted with noble metals.

GOLD PURITY CHECKING BALANCE

<table>
<thead>
<tr>
<th>Model</th>
<th>CTL-323</th>
<th>CTL-863</th>
</tr>
</thead>
<tbody>
<tr>
<td>Capacity</td>
<td>320 g</td>
<td>800 g</td>
</tr>
<tr>
<td>Accuracy</td>
<td>0.001 g</td>
<td>0.001 g</td>
</tr>
</tbody>
</table>

Features:
- Measurement based on Archimedes principle incorporating High Precision electronic weighing scale.
- Accurate, Reliable and non destructive testing method.
- Provision to enter water temperature for temperature compensation of density value.
- Display of gold purity in % as well as karat.
- Gold purity checking in gold-copper silver, gold-silver, gold-copper alloys.
- Can be used to check other precious metals like platinum, palladium etc. by using mixture proportion function.
- RS-232 interface for printer / computer connection.
- Spacious tank for big ornaments, special design of tank to reduce buoyancy error.
- Hollow ornaments, ornaments inlaid with stones cannot be checked.
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Mob: 0993394931

Howrah:
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Tel: 033-24488200/2448921
Mob: 9133894484

Pune:
24/26, 5th Flr, M. S. 1, Khoji, Mirror, 1st Flr, 24/26, 5th Flr, Mirror,
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