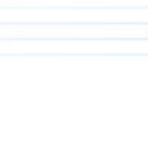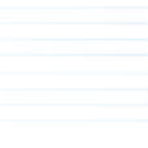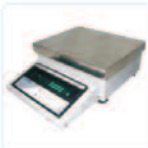# Complete range of
Electronic Weighing Scales from
India's Largest Manufacturer of
Magnet based Electronic Balances

CONTECH®
Instruments Ltd.
AN ISO 9001-2008 COMPANY
Where innovation never stops...

PERFECT BALANCE

CONTECH® India's only manufacturer to produce 0.01mg accuracy Balances to 100 ton Weighbridges, offer more than 250 various models in 50 plus different catagories....

CONTECH ®
Where innovation never stops...

India's Largest Electro Magnetic Force Compansation (EMFC) Balance Assembly line since 1992

Contech Instruments Ltd, an ISO 9001 2008 Company established in the year 1992 has an installation base of more than 3 lac customers 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 100 ton Electronic Weighbridges in its own setup illustrating the technical competence of the Company.

Advanced EMFC transducer for unmatched accuracy & reliablity

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.

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

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). All Models have been approved by the Department of Weights & Measures, Ministry of Civil Supplies, Govt. of India.

Simulation and Calibration Correction at Extreme Envionment Conditions

All Balances are tested for atleast one week and weight readings are taken at regular intervals at different ambient temperature, corrected for any deviation in the calibration by hardware and software adjustments so as to make the balance display readings within the permissible error limits depending on the accuracy class against standard weights throughout the duration of working within the specified limits of ambient temperature. Contech provides the test certificates, Quality Certificates for design (DQ), Installation (IQ), Operation (OQ) & Performance (PQ) as required by various certifying authorities governing the industry segments.

Marketing and Service Network

Company has got its marketing offices and service centers in most of the major cities in India to cover the entire spectrum of Industrial and Retail Segments and to support more than 250 dealers in 100 plus cities and 3 lac customers spread across the country. Customized and dedicated Enterprise Resource Planning (ERP) software package for the entire operation of Contech with exclusive CRM Module for customer support helps in tracking the product and customer history and coupled with efficient customer support team has enabled Contech to offer the services to be one of the best in the field.

LABORATORY BALANCES

SEMI MICRO BALANCES
0.00001g to 230g

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

The balance is supplied with Breeze shield 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.
- Motorized internal calibration (Optional).
- ISO GLP compliance (Optional).
- Real time clock (RTC)(Optional).
- Density determination kit (Optional).
- Weigh below hook for density deterination (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).

ANALYTICAL BALANCES
0.0001g to 220g

Models	CA - 34	CA-64	CA-124	CA - 224
Capacity	30g	60g	120g	220g
Readability	0.0001g	0.0001g	0.0001g	0.0001g
Repeatability (+/-)	0.1 mg	0.1 mg	0.2 mg	0.2 mg
Linearity (+/-)	0.2 mg	0.2 mg	0.3 mg	0.3 mg
Pan Size	80 mm	80 mm	80 mm	80 mm

The balance is supplied with Breeze shield as standard.

HIGH PRECISION BALANCES
0.001g to 500g

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)	180x220	180x220

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 : 10 to 45 deg C

DENSITY BALANCES
0.1 mg - 10 kg

Range :
- 0.1 mg - 230g
- 1mg – 500g
- 0.01g – 5kg
- 0.1g – 10kg

- Density Determination Kit is available in 2 types one to be mounted on the pan and the other typ 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).

FLAMEPROOF BALANCES
0.1 mg - 6 kg

Range :
- 0.1 mg - 230g
- 1mg – 500g
- 0.01g – 5kg
- 0.1g – 6kg

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.

MOISTURE BALANCES
0.001g to 220g
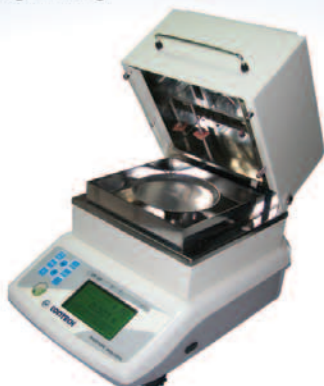
Models	CB 50 (M)	CA-123 (M)	CA-223(M)
Capacity	50g	120g	220g
Readability	0.001g	0.001g	0.001g
Pan Size	100 mm	100 mm	100 mm

* Easy & Fast Moisture Determination.
* 3 types of Testing Methods:- Manual, Time Programmable, Automatic.
  Weighing based on EMFC techinque
* Heating by infrared halogen tube heater.
* Temperature range upto $200^{o}C$ ($1^{o}C$).
* Moisture range : 0.05% to 100%
* Moisture measurement : Unit-   % wet base
*   % dry base
                                   dry weight
                                   % dry to wet weight
* Display of time, temperature, weight & percentage moisture.
* Graphical Backlite LCD for displaying weight, setup parameters, testing
  parameters & results.
* RS-232 interface for connecting to a computer/printer.
* Data storage upto 50 tests.
* 10 programmable memory.
* 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 : 0.05% for sample above 5g
           0.1% for sample below 5g
Resolution: 0.1%

Specifications
Taring Range : Up to full capacity
Response time : 4 to 6 secs
Power Req : 90-250V, 50/60Hz, 550 Watt
Operating Temperature : 10 to 45 deg C

GEM AND JEWELLERY SCALES

CARAT SCALES
0.001g to 50g

Models	CT-20	CT-50
Capacity	20g	50g
Readability	0.001g	0.001g
Repeatability (+/-)	0.001g	0.001g
Linearity (+/-)	0.001g	0.002g
Pan Size	45 mm dia	80 mm dia
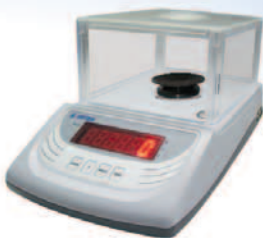
GOLD SCALES
0.01g to 600g

Models	CT-300	CT-600	CT-1001	CT-3001
Capacity	300g	600g	1000g	3000g
Readability	0.01g	0.01g	0.1g	0.1g
Pan Size	115mm dia	115mm dia	125mm dia	150mm dia

SILVER SCALES
0.1g to 15Kg

Common features for Gem & Jewellery Scales

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

Models	CT-6001	CT-10002	CT-15005
Capacity	6kg	10kg	15kg
Readability	0.1g	0.2g	0.5g
Repeatability (+/-)	0.1 g	0.2 g	0.5g
Linearity (+/-)	0.2 g	0.4 g	1.0 g
Pan Size (mm)	190x250	190x250	190x250

Common specifications for Gem & Jewellery Scales

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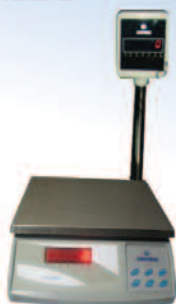Power Req : 90-250V, 50/60Hz, 10 Watt
Operating Temperature : 10 to 45 deg C

SUPERMARKET SCALES

RETAIL SCALES
1g to 35Kg

Models	CT-30K1	CT-30K2	CT-35K2
Capacity	30kg	30kg	35kg
Readability	1g	2g	2g
Repeatability(+/-)	1g	2g	2g
Linearity (+/-)	2g	2g	2g
Pan Size (mm)	225x300	225x300	225x300

* 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

Models	CT-30K1	CT-30K2	CT-35K2
Capacity	30kg	30kg	35kg
Readability	1g	2g	2g
Repeatability(+/-)	1g	2g	2g
Linearity (+/-)	2g	2g	2g
Pan Size (mm)	225x300	225x300	225x300

* Can store price of items with their names(up to 60 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.
* Mini Printer (Optional)

HANGING SCALES
2g to 30Kg

Models	HS-15K2	HS-30K5
Capacity	15g	30g
Readability	2g	5g
Repeatability (+/-)	2g	5g
Linearity (+/-)	4g	10g

* Compact and portable.
* Battery operated.
* LED display.
* Detachable & washable stainless steel pan.
* Ideal for super market, fisheries, meat, etc.,

HEALTH SCALES

ADULT SCALES
2g to 30Kg

Models	BS-150K100
Capacity	150kg
Readability	100g

* Toughened glass top.
* Waterproof, can be used in bathroom.
* Battery operated.
* Battery power saving while no weight on the scale.
* Large LCD display.

KITCHEN SCALES
0.1g to 5Kg

Models	CS-601	CS-5K1
Capacity	600g	5kg
Readability	0.1g	1g
Pan Size (mm)	150x150	150x150

* Compact design.
* Accurate measurement.
* Easy carrying option.
* Battery powered.
* LCD display.
* Optional eliminator power supply.

BABY WEIGHING SCALES
5g to 20Kg

Models	CT-20K5
Capacity	20Kg
Readability	5g
Pan Size (mm)	550 x 300

* 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
0.5g to 35Kg

Models	CT-15005	CT-30K1	CT-35K2
Capacity	15kg	30kg	35kg
Readability	0.5g	1g	2g
Linearity (+/-)	1g	2g	2g
Pan Size (mm)	225 x 300	225 x 300	225 x 300

* Incorporates high quality loadcells
* Multiple weighing units, Gram, Kilo gram, carat, litre, pound
* Piece counting facility, upto 25 different types
* Storage of weights in memory and printing, upto 100 weights.
* Power saving mode
* Bi-directional RS232 interface to interface 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

Models	CT-6001	CT-10002	CT-15005	CT-30K1	CT-35K2
Capacity	6kg	10kg	15kg	30kg	35kg
Readability	0.1g	0.2g	0.5g	1g	2g
Repeatability(+/-)	0.1g	0.2g	0.5g	1g	2g
Linearity (+/-)	0.2g	0.4g	1g	2g	2g
Pan Size (mm)	225x300	225x300	225x300	225x300	225x300

Models	CP-75K5	CP-100K10	CP-200K20	CP-300K20	CP-500K50	CP-1T100
Capacity	75kg	100kg	200kg	300kg	500kg	1ton
Readability	5g	10g	20g	20g	50g	100g
Repeatability(+/-)	5g	10g	20g	20g	50g	100g
Linearity (+/-)	10g	20g	40g	40g	100g	200g
Pan Size(mm)	400x400	450x500	600x600	600x600	750x750	1000x1000

* 3 separate display to indicate weight, unit weight and parts.
* 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 SCALES
0.1g to 60kg
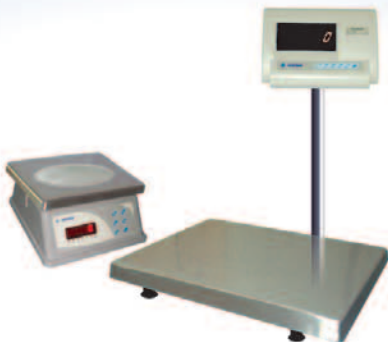
Models	CT-1001	CT-6K1	CT-15K5	CP-30K5	CP-60K10
Capacity	1kg	6kg	15kg	30kg	60kg
Readability	0.1g	1g	5g	5g	10g
Linearity (+/-)	0.2g	2g	5g	10g	10g
Platform Size(mm)	220x280	225x280	220x280	400x400	400x400

- Available in table top and plarform type.
- Optional IP 67/IP 68 SS loadcell.
- Optional IP 67 S. S. Indicator.
- SS 202, Stainless steel construction
- Optional SS 304 & SS 316 materials.
- Electronics and loadcell totally protected from ingress of water.

PALLET SCALES
200g to 2 ton

Four loadcell based Pallet Scales

Model	1T200	2T500
Capacity	1 ton	2 ton
Readability	200g	500g

- Optional Battery Backup.
- Overload and shock load protection.
- 100% subtractive tarring 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 pharmaceutical industries

PLATFORM SCALES
2g to 1 ton

Models	CP-75K5	CP-100K10	CP-200K20	CP-300K20	CP-500K50	CP-1T100
Capacity	75kg	100kg	200kg	300kg	500kg	1ton
Readability	5g	10g	20g	20g	50g	100g
Platform Sizes(mm)	400x400	450x500	600x600	600x600	750x750	1000x1000

FLOOR SCALES
200g to 10 ton

| Capacity	1T/2T	2T/3T	3T/5T/10T
Readability	200g/500g	500g	1kg/1kg/2kg
Platform Sizes(mm)	1200x1200	1500x1500	2000x2000

Common features of Platform, 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.
* 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 67/68 shear beam loadcells.
* Stainless Steel S.S. 202 Platform (S.S.304/S.S.316 optional).
* Stainless Steel IP67 GLP compliant Indicator with Real Time Clock (Optional).

STAINLESS STEEL
LOW PROFILE SCALES
100g to 2ton

Models	CP-500K100	CP-1T200	CP-2T500
Capacity	500kg	1ton	2ton
Readability	100g	200g	500g
Repeatability (+/-)	100g	200g	500g
Linearity (+/-)	200g	400g	1kg
Platform Size(mm)	1000x1000	1000x1000	1200x1200
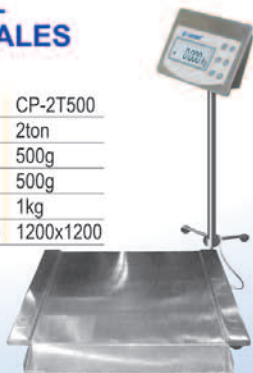
CRANE SCALES

STANDARD CRANE SCALES

(0.5, 1 ton)

(15, 20 ton)

(2, 3, 5, 10 ton)

(30, 40, 50 ton)

MODELS	CAPACITY	ACC
CCS-500K100	500Kg	100g
CCS-1T200	1Ton	200g
CCS-2T500	2Ton	500g
CCS--3T1K	3 Ton	1Kg
CCS-5T2K	5Ton	2Kg
CCS-10T/5K	10Ton	5Kg
CCS-15T/5K	15Ton	5kg
CCS-20T/5K	20Ton	5Kg
CCS-30T/10K	30Ton	10kg
CCS-40T/20K	40Ton	20kg
CCS-50T/20K	50Ton	20kg

* 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 above 20 ton.
* Maximum safety overload 200%.
* Inbuilt sealed maintenance free re-chargeable battery and Battery charger (Optional)
* Infrared remote keypad, operating distance 10 mtr (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.

CRANE SCALES with Heat Insulating Shield

MODELS	CAPACITY	ACC
CCH-1T200	1Ton	200g
CCH-2T500	2Ton	500g
CCH--3T1K	3 Ton	1Kg
CCH-5T2K	5Ton	2Kg
CCH-10T/5K	10Ton	5Kg
CCH-15T/5K	15Ton	5kg

* Special construction for high temperature shielding.
* Minimum distance for normal operation is 2 mtr for a heat radiation source at 1500° C.
* Heavy duty aluminum diecast enclosure.

CRANE SCALES with Wireless Transmission

MODELS	CAPACITY	ACC
CCW-5T2K	5Ton	2Kg
CCW-10T/5K	10Ton	5Kg
CCW-20T/5K	20Ton	5Kg
CCW-30T/10K	30Ton	10kg
CCW-40T/20K	40Ton	20kg
CCW-50T/20K	50Ton	20kg

* Heavy duty steel enclosure.
* Wireless transmission maximum operating distance from the Indicator is 100 mtr.
* Graphical backlite LCD display in the Indicator.
* Real Time Clock (Optional).

CRANE SCALES with Wireless Transmission & Heat Insulating Shield

MODELS	CAPACITY	ACC
CCWH-5T2K	5Ton	2kg
CCWH-20T/5K	20Ton	5Kg
CCWH-30T/10K	30Ton	10kg

* Special construction for high temperature shielding.
* Minimum distance for normal operation is 2 mtr for a heat radiation source at 1500 o C.
* Wireless transmission maximum operating distance from the Indicator is 100 mtr.
* Graphical backlite LCD display in the Indicator.
* Real Time Clock (Optional).

WEIGHING INDICATORS

Contech Platform Scales are offered with various types of Indicators for different working ambience and application.

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 Backup
* 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 NO/NC potential free relay contacts
* Panel mounting or Desktop
* Optional battery backup
* Bright LED Display
* RS-232 Interface (Standard)

FLAMEPROOF 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 inlet & loadcell connection.
* Loadcell connection through Zenner Barrier.

STAINLESS STEEL INDICATORS

* High protection grade stainless steel housing, Waterproof IP65.
* GLP Compliant suitable for 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).

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

ELECTRONIC WEIGH BRIDGES

5kg to 100 Ton

Remote Display

Indicator Module

- Weighing capacity from 10T to 100T, accuracy from 5kg to 50kg.
- Different platform size 6m x 3m to 18m x 3m.
- Heavy duty loadcells and rugged construction for long life and reliable operation.
- Incorporates latest Microcomputer – technology for accurate weighing
- Eliminates leavers and knife edges to avoid frequent maintenance.
- Computerized model for effective truck management and report generation on the basis of date, vehicle number, supplier, material, etc on a printer.

Capacity	: 10 ton – 100 ton
Accuracy	: 5 kg – 50 kg
Platform Size	: 7.5 x 3 m – 18 x 3 m
No. of Loadcells	: 4 – 8 Load cells: Hermetically sealed Compression Type.
Control Unit	: Microcontroller based.
Auxiliary Display	: 1" LED (optional 4")
Power supply (control unit)	: 100 - 270 V.AC; 50/60Hz
Power Consumption (control unit)	: 50 Watts
Operating Temperature	: 10 deg C to 45 deg C

Structure Mounted on the loadcell

LOADCELL RC3

Features

- Stainless steel self centering rocker, column, loadcell with complete hermetic sealing suitable for use in harsh industrial environment.
- Environmental protection IP68.
- Self restoring design.
- High input resistance.

SCALES FOR SPECIAL APPLICATIONS
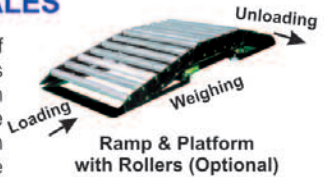
MILK BOWL WEIGHING SYSTEMS
100 g - 500 kg

Model	300K100	500K100
Capacity	300 kg	500 kg
Accuracy	100 g	100 g

* Platform Scales for small milk collection centers and Bowl type scales for big Dairy Farms
* Programmable conversion factor for kilograms to litre
* RS232 output for computer interface
* Rugged construction to withstand rough usage in dairy farms
* Optional stainless steel bowl in S.S.304.
* Optional stainless steel construction.

RAMP & ROLLERS FOR PLATFORM SCALES

For ease of loading and unloading of carboy 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 passivasion or S.S. 202 or S.S. 304 depending on the need.

Unloading

Weighing

Loading

Ramp & Platform with Rollers (Optional)

STATIC CHECK WEIGHING SYSTEMS

* Programmable 1 or 2 limits setting.
* Status indication weight under, weight Ok, weight over.
* Illuminated status display for clear and distant viewing.
* Programmable 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.

BALANCE ACCESSORIES

AUXILARY 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 viewing 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. Maximum cable length can be upto 25 mtrs. The Auxiliary display is available in LED or VFD as per the provision in the scale.

LARGE PANEL DISPLAY

large size digit (upto 4" digit height) in high bright red led for usage in open area like production floor, exit gate along with weighbridges, crane scales, floor scales, etc. , for a large distant viewing. Wired and wireless option available.

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.

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 cna 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 tne 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.

FLAMEPROOF JUNCTION BOX

Flameproof cum weatherproof junction box in cast aluminium with multiple ports and cable glands for intlet and outlet connection of loadcells 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.

STANDARD WEIGHTS

* High precision metrological standard weights and weight box.
* Complete range:1mg 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).

ELECTRO CHEMICAL INSTRUMENTS

pH METERS

* Advanced Microcontroller based design.
* Display of pH, mv, temp on backlite LCD.
* RS-232 Interface (Optional).
* Inbuilt RTC (Optional).
* GLP compliant (Optional).
* Entry of buffer value, machine ID through keyboard for the GLP print out.
* 3 point Automatic pH Calibration with buffer standards 4.0, 7.0 & 9.2 pH
* 3 point manual pH calibration using with known buffer standards.
* Automatic temperature compensation (Optional).
* Entry of temperature through keyboard in the absence of temperature sensor
* Storage upto 50 test results
* Display of time based pH sampling data upto 200 samples

Model	CpH-102	CpH-103
pH Range	0-14pH	0-14pH
pH Resolution	0.01pH	0.001pH
pH Accuracy	$\pm$0.02pH	$\pm$0.002pH
Temperature compensation	0-100 deg C	0-100 deg C
mV	$\pm$2000mV	$\pm$2000mV
mV Resolution	1mV	0.1mV
mV Accuracy	$\pm$2mV	$\pm$0.2mV

CONDUCTIVITY METERS

Model	CC-01
Conductivity Range	0-200mS/cm
Precision	+ 1.0% full scale
Resistivity	0 to 50 M Ohm.cm
Temperature	-10.0 to 110.0°C
TDS	0 to 80g/L

* Incorporates advanced automatic frequency convertible and voltage technology to enhance electrodes measuring capability and maintains the electrode constant in standard solution of different concentration.
* One point calibration for the entire range.
* Advanced Microcontroller based design.
* Display of Conductivity & temp on backlite LCD.
* RS-232 Interface (Optional).
* Inbuilt RTC (Optional).
* GLP compliant (Optional).
* Entry of Conductivity electrode constant, machine ID through keyboard for the GLP print out.
* Automatic temperature compensation (Optional).
* Entry of temperature through keyboard in the absence of temperature sensor
* Storage upto 50 test results

OPTICAL INSTRUMENTS

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 upto 1% transmittance.
* Various types of sample tubes, sample tube length 100 mm and 200mm.
* Measures optical rotation, specific rotation, concentration and sugar content.

Measuring Range	: -120° to 120° Z
Resolution	: +0.001° Z
Accuracy	: +/- (0.03Z + measured value X 0.05%)
Light Source	: Sodium Lamp 589 Nm
Lowest sample transmittance	: 1%
Power Supply	: 220 V +/-10%, 50Hz
Dimensions	: 600x320x220mm
Weight	: 30kg

DIGITAL ABBE REFRACTOMETERS

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.

Measuring Range	: Refractive Index nD : 1.3000 to 1.7000
	Brix : 0 to 95%
	Brix-TC : 0 to 95%
Accuracy	: Refractive Index nD : +/-0.0002
	Brix : +/-0.1%
Range of temperature display	: 0 to 50°
Range of temperature for correction of Brix value	: 15 to 45°
Power Supply	: 220 V +/-10%, 50Hz
Dimension	: 330x180x380mm
Weight	: 10 kg

DIGITAL MELTING POINT APPARATUS

CDMP-300

* Photo Electric detection.
* Large Backlite LCD display.
* RS-232 Interface.
* Measurement of 3 samples simultaneously.
* Display of initial and final melting points.
* Calculation of average value of initial and final melting points.
* Platinum resistor sensor for the precise temperature measurement.
* Capillary sample tube as stipulated by pharmacopoeia.

Measuring Range of Melting point	: Ambient to 300°C
Resolution	: 0.1°C
Rate of heating(oC/min)	: 0.2,0.5, 1, 1.5, 2 3, 4, 5
Accuracy	: +0.5°C upto200°C,
	+0.8°C from 200 °C to 300°C
Heating time (50 to 300oC)	: 3 mins
Cooling time(300 to 50oC)	: 5 mins
Capillary sample tube size	: OD 1.4mm, ID 1mm
Power Supply	: 220 V +/-10%, 50Hz, 100 Watt
Dimensions	: 400 x 280 x 210 mm
Weight	: 12.5 kg

X-RAY GOLD PURITY TESTERS

Quick, Accurate, Reliable, Non Destructive Gold Purity Checking by
X-Ray Fluorescence Spectrometer **Contech CGX -101**

X-Ray Gold Purity Tester - CGX-101

XRF Spectrometer thus far restricted only to the Research Labs is the most scientific approach for the elemental analysis which has found a new market segment in the Gold Jewellery Industry for the most accurate and reliable gold purity checking. Traditional Gold purity testing methods such as fire assay and chemical analysis are time consuming, cumbersome and destructive. XRF testing is relatively simple, fast, reliable, inexpensive, no sample preparation required and most of all is non – destructive.

Energy Dispersive X-ray Fluorescence

XRF is used to detect and analyze noble metals like Gold(Au), Silver(Ag), Platinum (Pt), Palladium (Pd), Rhodium (Rh), Ruthenium(Ru), Copper (Cu), Zinc(Zn), Nickel (Ni), Cadmium(Cd), Indium (In) in the Jewellery 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 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 filters, gas proportional counter detector, processing electronics and system interface & an external computer. A camera is incorporated in the system to view the sample on the computer screen.

Contech Gold Purity Tester - Xray Fluorescence Spectrometer CGX-101

Detectable elements*	: Gold(Au), Silver(Ag), Platinum (Pt), Palladium (Pd), Rhodium (Rh), Ruthenium(Ru), Copper (Cu), Zinc(Zn), Nickel (Ni), Cadmium(Cd), Indium (In).
Accuracy of measurement	: $\pm$0.2%
Sensor	: Gas Proportional Counter Detector.
Detection Range	: 1%-----99.99%
Testing Time	: 30-----200 secs
Test Point Area	: 1-2mm
Coating Thickness Measurement	: <30µ
High Voltage Source for X-Ray	: 50 Kv
Power Supply	: 200-240V AC, 50-60Hz
Power Rating	: 130 Watt
Temperature Range	: 10-40°C
Relative humidity	: <70%
Operation atmosphere	: Vibration free surface and air conditioned room.
Interface for Computer	: Inbuilt, External Computer required.
Software for Operation	: Menu Driven User Friendly Operating System.
Dimensions : Length	: 440mm
Height	: 335mm (with test compartment cover in closed position) & 585mm (in open position).
Depth	: 370mm(without connectors) and 430mm (with connectors)
Net Weight	: 25kg

* Spectrum of some of the elements may be combined with other elements, in such cases, concentration of the latter gets added to the former.

State Of The Art Manufacturing Plant
Plot No. EL-221 TTC Indl. Area, MIDC (Electronic Zone), Mhape, Navi Mumbai-400 701.