



CHIRON INSTRUMENTS (I) PVT. LTD.



THE TECHNICAL ADVANTAGE

TRITON TECHNOLOGIES



THE MEASURE OF EXCELLENCE

Partners For Performance



● CUBIS I & II : Precision Balances / Analytical / Semi-Micro / Ultra-Micro

Cubis meets strict criteria for **Advanced Pharma Compliance**:

- Customizable modularity with 45 different weighing modules and draft shields
- Automatic levelling with continuous level monitoring
- 21 CFR Part 11 compliant with user management, digital signatures, audit trail, USP minimum weight, data backup, time synchronization
- Status Center notifications, Onboard QApp Center to enhance the balance
- Various accessories such as gesture sensor, climate monitoring, density determination kits, pipette calibration kits and many more
- Monolithic weighing cell for ultra-fast response with highest accuracy
- To weigh the smallest quantity with highest accuracy
- Special version available for Filter weighing, Dosing application
- Ergo clips – to weigh samples directly into flasks, vials

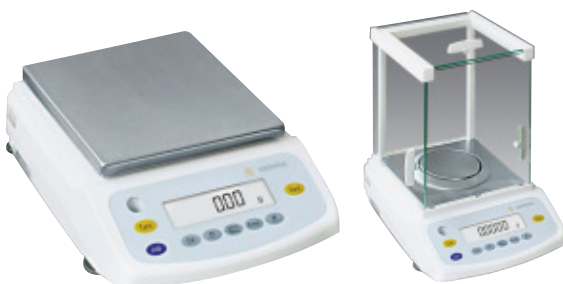


● SECURA / QUINTIX - Semi-Micro / Analytical / Precision Balances

- SECURA balances for Advanced Pharma Compliance including Password protection, Level monitoring & control
- SECURA / QUINTIX balances with features like Coloured touch screen, iso-CAL with internal & external calibration, USB interface, Direct Data transfer into Windows application like Word & Excel

● Entris® II - Semi-Micro / Analytical / Precision Balances

- Monolithic weigh cell technology, isoCAL, LED touch technology and 12 builtin applications
- Housing made up of high chemical resistance PBT material
- USB Type C interface, RS232 interface for data transfer



● BSA Economic Series

- With & without Internal Motorized Calibration
- ISO/GLP complaint printout
- Various Model ranging from 0.1 mg to 8 kg

SARTORIUS

More Than Just Weighing

Weigh with confidence & speed



● IR Moisture Analyser

- Option of Ceramic / Halogen / Quartz (CQR) heat sources for Moisture Analysis
- Rapid & Reproducible determination of moisture in Pharmaceutical, Food, Chemical, Polymer & various other products
- End-point determination by fully Automatic, Semi-Automatic & Time mode
- Built-in Calibration weight & fully Automatic Temperature Calibration
- Built-in printer / facility to connect external printer



● Standard Weights

- E1 / E2 / F1 / F2 class Calibrated Weights as per OIML from 1 mg to 1,000 Kg from Sartorius
- The measure of accuracy for control of inspection, measuring and test equipment

All Sartorius Balances are available with optional Density Determination Kit & Data Printer.

thermo scientific

Empower your analysis

● UV-VIS Spectrophotometer – Complete Pharma Solution

» UV-VIS Spectrophotometer Evolution Series

- Dual-beam optical geometry with Xenon flash lamp
- Selectable wavelength from 190 to 1100 nm & Selectable Bandwidth of 1 nm, 2 nm & variable (0.5 to 4 nm)
- INSIGHT™2 Security Software to comply with 21 CFR Part 11 and LIMS compatibility
- Wide accessory selection with various temperature control options, sippers, solid sampling devices, automatic 8 cell changer, solid sample holder, cuvette and test tube holders complete your analysis



» Micro-Volume Spectrophotometer

- Microvolume analysis of DNA, RNA and protein samples
- Powerful auto-range pathlength technology with wide spectral range from (190-850nm)
- Sample-retention system enables direct microvolume measurements from 1–2 μ L of sample
- Powerful analysis with Acclaro Sample Intelligent Technology
- PC software with 21 CFR Part 11 compliance

● **Thermo Orion Electrochemistry Products**

» **Versa Star Pro pH / Conductivity / Dissolved Oxygen / Ion Selective Meter for Pharma Compliance:**

- Colour Graphic LCD display for pH, Conductivity / TDS, Salinity, Dissolved Oxygen & Ion selective measurement
- Multi Point pH / Conductivity / ISE calibration as per Pharmacopeia (USP / BP / IP) requirement
- Wide varieties of probes & electrodes
- All-in one kit for analysis of various parameters
- Data transfer via USB or RS232 to a printer or computer
- Benchtop & Portable series with Password Protection
- Optional 21 CFR Part 11 Compliance Software



» **Dual Star pH / ISE meters**

- Dual channel with Simultaneous display of measurement
- Low concentration reading stability
- Known addition & subtraction, Incremental, Direct measurement
- 10 Method per channel & 1000 Data log with Time & Date

» **Basic Level pH, Conductivity, DO Meter**

- Single parameter measurement
 - Benchtop & Portable series
- For Institutions, Chemical, Food Industries



» **Probes & Standards**

- pH / Conductivity / Dissolved Oxygen / Ion selective Probes
- Filling Solution, Storage Solution, NIST Traceable Calibration standards, Buffers are available



»» Colorimeter

- Measure common colorimetric water and wastewater parameters
- Identifies the species to be measured
- Customizable calibration & Method
- Meter satisfy ISO & EPA approved Methods



»» Titrator

- Automate acid-base, redox and ion titrations for simple accuracy
- 5.7" color capacitive touchscreen, Easy operation
- Create and save up to ten user-defined methods & 100 titration data sets with date/time stamp
- Facilitate data transfer to printer, computer or USB drive in CSV, PDF / Excel format with Graph
- 10 ml, 20 ml & 50 ml Burette size with accuracy of 2 million micro-steps over full burette stroke range which meets ISO8655-3 requirements

»» UV-vis Spectrophotometer

- More than 260 pre-programmed methods using Orion™ AQUAfast™, Merck™ or CHEMetrics™ chemistries
- Selectable wavelength from 190 to 1100 nm & Spectral Bandwidth of 1.8 nm
- A Dual-beam optical geometry with Xenon lamp for accurate measurement
- Three USB connections to store methods & data to a USB memory stick, transfer data to a computer & Printer



»» Turbidity Meter

- Includes a dual light sources LED to allow readings that comply with reporting requirements for EPA & ISO 7027
- Portable & IP67 waterproof meter with 100 data point memory & 2,500 hours battery life
- Measures cloudiness or particulate floating in sample
- Nephelometric principle & Vial indexing with continuous measurement
- Computer Interface for data transfer

● GLASSWARE WASHER WITH & WITHOUT DRYING SYSTEM

- The fully Automatic washing process ensures the professional cleaning of all kinds of Glasswares
- Wide range of models and cleaning accessories like trolleys, supports etc.
- Cleaning of Glassware in chemical, pharmaceutical, colour & dyes, flavours & fragrances, petrochemical industries etc.
- Guarantee of complete Biological decontamination in accordance with BGA standards
- Thermal Disinfection
- Pre-programmed washing cycles with option of customized programs
- Control operations protected by 4 level password system
- Printer or PC connections through RS232C, USB and LAN for validation of process
- Various combination of Injection washing & Spray washing
- Stainless Steel Door & Glass Door version with facility of Sliding Door / Drop Down Door
- Double Door concept for clean Room application



GW4090



**GW4090 -
One injection level**



**GW4090 -
One Mixed injection level**



**GW4090 - Two level -
Injection & Rotating Sprayer**



GW6010L/GW6010LM



GW6290DS



GW7010



**GW7010
with release trolley**



GW7015

● **THE SPECIALIST WHEN IT COMES TO PURIFIED WATER!**

- Meets all the well-known Water Quality Standards like ASTM Type I, CLSI and ISO 3696 Type I
- Water for various application like ICPMS (Inductively Coupled Plasma Mass Spectrometry), Molecular biology techniques, Ultra trace analysis, Electrochemistry, Electrophoresis, HPLC, IC (Ion chromatography), Molecular biology, AAS (Atomic Absorption Spectrophotometry), Glassware washing/rinsing, Buffer and media preparation, Spectrophotometry, DNA sequencing

» **LABOSTAR PRO TWF FOR TYPE 3 & TYPE 1 WATER**

- RO Water & Ultrapure water obtained from single system with integrated 7 Ltr tank & conductivity monitoring
- Polisher Module, 0.2 micron filter, UV Lamp.



» **ULTRACLEAR TWF FOR TYPE 2 & TYPE 1 WATER**

- Touch Panel - Graphic display of all main functions.
- De-ionized & Ultrapure water obtained from single system with De-ionization module / Electro-Deionization.
- Built in RO with 30 / 60 Ltr. Tank
- Ultrapure loop with Polisher Module, UV oxidizer, TOC Monitoring, Ultra-filtration module,
- SD cards & USB connections for data transfer.



» **ULTRA CLEAR RO / ULTRA CLEAR RO DI / ULTRACLEAR RO EDI**

- Ultra Clear RO systems are available to produce RO water from 10 LPH to 350 LPH with Reverse Osmosis Module
- Ultra Clear RO DI systems are available to produce Deionized water 10 LPH, 20 LPH, 30 LPH with De-ionization module
- Ultra Clear RO EDI systems are available to produce Deionized water 10 LPH, 20 LPH, 30 LPH, 55 LPH with Electro-Deionization



» **PROTEGRA CS® RO/EDI**

- Low Operational cost & Running cost due to EDI technology
- Robust Design and the smaller footprint in castor wheel
- Consistent Water quality < 0.1 $\mu\text{s/cm}$
- The TOC content is less than 30 ppb
- All systems are equipped with an RS232 interface
- Potable tap water is the feed water for this system



● Analytical Instruments

- Nitrogen / Protein Analyser using DUMAS (Combustion) method with Thermal Conductivity Detector
- Carbon / Nitrogen Elemental Analyser using Combustion method with Thermal Conductivity Detector for Nitrogen and NDIR for Carbon
- Nitrogen & Protein estimation using Kjeldahl method (complete package of Digestion, Distillation & Titration unit with Auto-sampler)
- FAT Analyzer (Solvent Extractor), Raw & Dietary Fiber Analyzer
- Shelf-life study (Oxidation Test Reactor)
- Complies with AOAC, EPA, DIN, ISO Standards
- Built on TEMS Technology for saving in Time, Energy, Money & Space



ermes enabled



● Laboratory Equipments

- Magnetic Stirrers, Magnetic Stirrers with Hot Plates, Metal & Ceramic top, Digital controller, Multi-point Stirrers.
- Overhead Stirrers & shafts with various features catering to varying volumes & viscosities of the samples.
- Vortex Mixer ranging from basic to advanced featured models
- Homogenizer for dispersing, homogenizing and mixing biological tissue samples with high speed range from 10,000 to 30,000 rpm suitable for all applications with various options of Stator / Rotor combination



Laboratory Equipments

- BOD determination system, BOD & Respirometric sensor system, BOD Cooled Incubators
- Flocculator (Jar & Leaching Test) to determine the optimum operating conditions for water or wastewater treatment
- Thermoreactor designed for COD Analysis
- Overhead Mixers for rotating, shaking and mixing application
- Mineralization system for heavy metals trace determinations



VELP HERMES CLOUD PLATFORM

- VELP instruments like Heating magnetic stirrers, Overhead stirrers, BOD & Respirometric sensor system, Elemental analyzers, solvent extractors, shelf life studies, Fiber analyzers, etc. are cloud enabled
- User can control and monitor the performance & operation in real time, or glance through analysis reports and get alerts for special conditions.



for precise, reproducible and error-free sieving processes

Sieve Shaker

- Quality engineered Laboratory Test Sieve Shakers for precise & reproducible results
- Various Analog / Digital Models for 20 μm to 125 mm particles for Sample up to 20 Kg
- Electromagnetic drive for quiet and virtually maintenance free operation
- 3D sieving motion
- Air Sizer 200 for sieving very fine dry particles



TEST SIEVES

- Precise aperture in accordance with national and international standards like ISO 3310-1, ASTM E11
- Special sieves available - Air jet sieves, Round hole SS plate sieves,
- Microplate test sieves, Extra deep sieves / Wet washing sieves, Grid sieves, Grain sieves.
- Safe edge for comfortable handling
- Sieve Calibration Standards of Microspheres formed of soda-lime glass that range from 3.35 mm down to 20 microns with Traceability certificate
- SIEVEWARE SOFTWARE for particle size analyses.





Anton Paar

**Measuring and analysis
instruments**



● **Rotational Viscometer & Rheometers**

- Relative spindles (L,R,H) according to ISO 2555,
- ASTM D1084, D1824, D2196, USP 912 and more
Single Point measurement & Multi-point measurement
- Wide speed range (0.1 rpm to 250 rpm) with customizable speed list
- Digital levelling, magnetic spindle coupling, at-site exchangeable sensor
- Unique facility for Toolmaster™, TruMode™, TruGuard™
- Compliance software and documentation fulfilling all regulations of 21 CFR Part 11
- Upgradable Software packages- V-Curve (R & D) & V-Comply (QA/QC)
- Optional accessories like Concentric Double Gap Cylinder & Ultra Low Viscosity Adaptor for measuring low-viscosity samples, Peltier temperature control device, Barcode & label printer and more



● **Refractometer**

- Digital, compact in design & with reliable optics
- 5.8" intuitive touchscreen for fast navigation
- RI measurement range: 1.30 to 1.72
- Brix measurement range: 0 to 100%
- Inbuilt memory of around 1500 measurements
- Automatic temperature correction
- Inbuilt USB & Ethernet port for data transfer.
- Supports the requirements of the pharmaceutical industry, including GMP
- Export, save, and print your results via four external ports



● **Portable Density Meter**

- For all kind of sample – no matter what is Viscosity
- Intuitive user interface without the need for any explanation
- Perfect traceability of density and concentration results
- Smart oscillator design and position enables replacement in case of cell rupture
- Range: Density: 0 g/cm³ to 3 g/cm³





BRAND

Your Partner in the Lab



Liquid Handling

» Bottle Top Dispensers – Dispensette S

- Dispensette S - suitable for broad range of applications like concentrated base, many acids (except e.g. HCl, HNO₃ and HF), saline solutions and organic solvents
- Dispensette S Organic - for dispensing of organic solvents and acids like HCl, HNO₃
- Dispensette S Trace Analysis - for dispensing high-purity acids, bases, HF and H₂O₂
- Seripettor / Seripettor Pro for Biological buffer solutions and detergents, anti-foaming agents, culture media, vitamin solutions, Lyes such as NaOH, KOH and ammonia, Polar solvents such as ethanol, methanol, acetylacetone, Acetone etc. Acid such as concentrated HCl, glacial acetic acid.



» Bottle Top Burette – Titrette

- Digital burette which meets class A error limits for glass burettes
- Simple and effective design for bottle attachment
- A compact design, excellent precision
- An exchangeable dosing unit, and an optional PC interface
- Nominal volume of 10 ml, 25 ml & 50 ml



» Micro Litre Pipettes

- Genuine one-hand operation
- Distinct precision and effortless operation
- Volume-change protection for safe pipetting
- Multi-Dispensing, Auto-Dispensing & Pipetting with HandyStep® touch and HandyStep® touch S also includes Sequential Dispensing, Multi-Aspiration and Titration modes.
- Air Displacement Pipettes - Transferpette S – 0.1 µl to 10,000 µl, Transferpette– 0.1 µl to 5,000 µl, Multichannel Transferpette – 0.5 µl to 300 µl



- Positive Displacement Pipettes - Transferpettor – 2.5 µl to 10,000 µl
- Repetitive Pipette – Handystep S – Manual available with Dispensing volume of 2 µl to 5 ml

**** Pipette Controller (Manual & Battery operated) available****



BRAND

Your Partner in the Lab



»» **Volumetric Glasswares – Class A**

- Bulb Pipette, Graduated Pipette, Volumetric Flask, Graduated Cylinders – made up of Glass
- PMP / PFA Volumetric flask
- Batch & Individual certificates



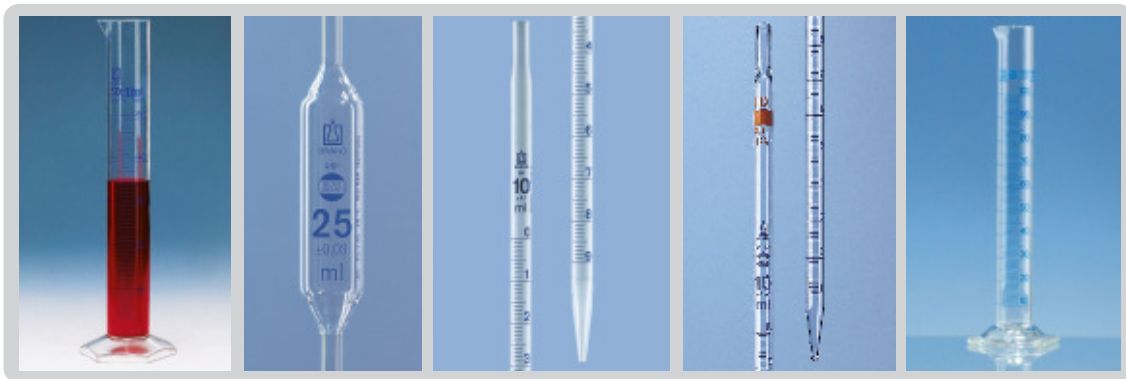
Glass

Trapezoidal

PFA

PMP

Glass



Glass - Cylinders, Pipettes



»» **Plastiwares**

- Sterile & Non-sterile, Dnase - Rnase Free
- Available in bulk, Racked, Tip Box, Tip stack
- Pipette Tip / Filter Tip with size 0.1 μ l to 10 ml
- PD Tips with capacity 0.1 – 50 ml

»» **Life Science Products**

- Brand Microplates & multi wellplates 96, 384 & 1536 well format
- UV Transparent cuvette with 70 μ l – 2.5 ml
- Seal-R-film™ - protects against evaporation, leakage, contamination and easy sealing with 300% elasticity
- Cell cultures inserts and Media Bottles





Innovative Optic-electronic
measuring instruments



● **Polarimeter**

- The Fastest Polarimeter worldwide with measurement time of approx. 1 Sec
- Patented measurement procedure
- Option of a water bath or Peltier temperature control
- Interface & software package for full GLP compliance
- Easy to use touch screen, filling and cleaning
- Compliance with GMP/GLP, 21 CFR Part 11, pharmacopoeias (USP, BP, JP, Ph. Eur.), FDA, ISO, HACCP, OIML, ASTM, ICUMSA, NIST



● **Melting Point Meter**

- Semi-Automatic & Fully Automatic measurement
- High preheating rate and the integrated fan for cooling for fast measurements
- Well-arranged readout of all important measuring data
- Small sample volume
- Melting point of powdery substances with a melting point up to 360°C in semi-automatic meter & 400°C in automatic meter



● **COLOUR & GLOSS MEASUREMENT**

- Spectral Colorimeter for colour measurement of clear, transparent liquids with reference beam technology
- Wide range of colour measurement like Hazen / APHA, Gardner, Iodine, Saybolt, ASTM D-1500, CIE-L*a*b*, Yellowness Index, Hess Ives, ICUMSA, Klett colour number.
- Applications in plastic, automobile paint / varnish, chemical, food industries, pharma & cosmetics.
- Simple integration into the laboratory network through Ethernet connection



● **Branson Ultrasonic Cleaner**



- Industrial type transducer assures both durability and Superior Power in the tank
- Polypropylene (PP) housing inert to moist chemicals
- One piece moulded 304L SS tank with vertical mounted PCB 40 KHz Ultrasonic
- Complete digital control, fully programmable, Temperature calibration
- Branson bath can be used for cleaning, sample preparation, degassing, mixing & homogenization, dissolving solids, cell lysing & dispersion particles
- For Scientific & Medical Labs, Electronics, Automobile, Jewellery Industries

● **Ultrasonic Sonifier**

- Leaders in Ultrasound technology since 1946
- Choice of Digital & Analog models with Power from 100 to 550 Watts
- Choice of different Horns, Tips, Cups to suit any application
- Powerful 20 kHz ultrasonic
- Samples in μ l, ml & Ltr. can be processed for Cell Disruption, Homogenizing, Accelerating chemical & biological reaction, Emulsification of immiscible liquids, Disaggregation & dispersion, Processing DNA & proteins, Leaching & extraction etc.



● **Laboratory Fluid Bed Dryer**

- Benchtop Drying unit, designed to bring the industrial fluidized bed process into laboratory with Sample from 10 g to 5 Kg.
- Fluid Bed Dryer with Digital controls of air flow, temperature and time.
- Used for Drying, mixing solids, forming uniform coatings & analysis of Moisture by weight loss
- 2 Ltr., 5 Ltr., 4 x 300 ml Sample Jars are available in Glass and SS



● **SCOTT VOLUMETER**



- This Volumeter meets ASTM Standard B329-90 & USP chapter 616 for the measurement of the apparent density of refractory metal powders, fine metal powders and other free flowing powdered materials
- Funnels with 10 mesh, 16 mesh, 18 mesh, 40 mesh available with calibrated Density Cup
- Option for Wooden & SS version

A few of our esteemed customers.....



The Technology Group : We Deliver Solutions

CHIRON INSTRUMENTS & **TRITON TECHNOLOGIES** are a part of a dynamic group with over 30 years of industry experience in marketing, selling & maintaining sophisticated, high-tech instruments for diverse applications.

Our long standing experience in the field of instrumentation helps us to be leaders in the industry. As a company we have a commitment to provide state of the art technologies, reliable and user friendly instruments and excellent after sales service. Our sales team does not merely sell you the equipment but will ensure that you have chosen the right instrument as per your application and needs.

We endeavour to help upgrade our customer's laboratories by providing them with latest instruments and technologies. We provide solutions rather than merely sell.

All products offered by us are backed by after sales service through our highly skilled and factory trained engineers. Apart from maintaining your instruments our support extends to also providing Annual Maintenance Contracts, Application Support and general overall assistance in operating the instruments efficiently.

When you buy an instrument through us, you are not only buying an exceptionally engineered product but you are also opting for a partnership with an organisation totally committed to meeting your requirements.



CHIRON INSTRUMENTS (I) PVT. LTD.



THE TECHNICAL ADVANTAGE

**TRITON
TECHNOLOGIES**

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