SWAN SCIENTIFIC LLP

ANALYTICAL SOLUTIONS

WATER QUALITY SOLUTIONS

AIR QUALITY SOLUTIONS

IHS SOLUTIONS

GENERAL LAB SOLUTIONS

LIFE SCIENCE SOLUTIONS

AGRI SCIENCE SOLUTIONS

OUR GLOBAL PARTNERS

SHIMADZU

xylem
Let's Solve Water

Wasserlab
Sistemas de purificación de agua
Water Purification Systems

DAIHAN Scientific
YOUR PARTNER in LABORATORY

gasmet

KANOMAX
The Ultimate Measurements

rotronic

kikkoman

TSI QUEST

SKC

SENKO

Honeywell
RAE
SYSTEMS

Anton Paar

SYLAB

KRÜSS
A.KRÜSS OPTRONIC
GERMANY

Spectrum
Technologies, Inc.

Total Organic Carbon (TOC) Analyzer

World Leader, based on the principle of 680°C Catalytic Combustion aided Oxidation / NDIR Detector.

High performance due to Strongest Oxidation Performance and High Sensitivity. Adaptive for several sample types.

Applications:

- To check the quality of Ambient Water, Drinking water, Process water, Waste water, Ground water & Sea water.
- To Determine TOC level in Poly Aluminium Chloride (PAC) coagulant (IS 15573: 2014).
- To determine TOC level in Soil, Sludge, Sediments, organic fertilizers, soil conditioners.
- To inspect bio mass for growth & characterization verification.
- To do Surface Carbon Analysis of specially treated metal parts viz., Al, steel, Cu, Brass & Al foils etc for QC.
- To determine Cement Admixtures, Calcium Carbonate.

High Quality Water Purification System

- Generates Ultrapure Water (Type I), Purified water (Type II) and Osmotized Water (Type III) independently from tap water.
- Meets USP and ASTM standards.
- Continuous, Volume & Time control modes of water dispensing.
- Automation of Instrument warns about the change of consumables as well as abnormalities such as inlet water cut, or malfunction of the measuring sensors.

BOD System

- Maximum versatility for aerobic (BOD/OECD) and anaerobic degradation, Soil Respiration, Biogas determination
- Ease-of-use , Modular system, Robust
- long-term stable – pressure measurements
- Easy switch to Echem parameters.

BOD by DO Method

- Self-stirring dissolved oxygen sensor
- Permanent flow for accurate measured values
- Accurate results due to minimal use of oxygen
- Perfectly adapted to Karlsruhe and Winkler bottles

COD System

- Quick, easy and accurate
- Hg-free reagents also available
- Automatic Data Storage
- IP68 waterproof case
- Digestor with 24 round cells
- 8 stored programs for easy and fast operation

Spectrophotometers

- VIS: Range 320-1100 nm.
- UV-VIS: Range 190-1100 nm.
- Well-proven Routine Analysis with Test Kits
- Pioneering reagent-free measurement of COD, NO3, NO2 in UV-range
- Multi-Wavelength + Special Procedures
- Automatic cell & range recognition
- Faster Scans 700 – 2000 nm/minute

Colorimeters

pHotoFlex STD: From Water to Wine applications, 150+ routine analysis programs, Test kits for every demand, Datafilter.

pHotoFlex pH, ORP: Aquaculture needing NH3 and CO2, Electrochemical pH-measurement from pH 0–16.00, Automatic Temperature Compensation (ATC), Redox Measurement

pHotoFlex TURB: with drinking water reliable pH+turbidity measurement: IR light source, Turbidity range 0.01-1100 NTU/FNU
The most versatile colorimeter for field and lab

Handheld Meters - Analog & Digital

Analog: Multi-parameter instrument. pH, mV, ISE, cond., & DO sensors. Robust. Waterproof housing. Backlit LCD display. All conventional sensors are connectable.

Digital: Intelligent Digital Sensors. Up to 10 parameters with one instrument. Rugged, dust and waterproof IP67. Wireless ready wherever cables are not suited. Rechargeable Battery.

Benchtop Meters - Analog & Digital

Analog: 2-channel pH/ORP/ISE. For direct measurement & incremental methods. Pre-set ions: Ag, Br, Ca, Cd, Cl, CN, Cu, F, I, K, Na, NO3, Pb, S, NH3, NH4, CO2, ION. Adjustable Auto-Read criteria, Optional built-in printer.

Digital: Intelligent Digital Sensors. Up to 11 parameters. Wireless or tethered. Triple, dual or single channels. Large memory for data sampling. Suitable for different applications requiring stand and power supply

Trimeter/Turbidity Laboratory Meter

Compact water analysis instrument designed for turbidity, Chlorine and color.

Meets USEPA & ISO design criteria. Uses tungsten lamp and meets the specifications of EPA 180.1

Pocket Testers

Measure Single / Multiple parameters. Parameters: pH, ORP, EC, DO, Total Chlorine, Fluoride, Salt, TDS, Temp. Built in Battery. Optional Memory storage. Large Display. Reagents also available .

Rapid Total Coliform and E.coli Detection Systems

Rapid Qualification: Colitag™ is simple, flexible, US EPA approved 16-48 hour water quality test providing Presence/Absence of Total Coliform & E.Coli bacteria

Rapid Quantification: Film media for microorganism testing. Sample, Incubate and Count. Easily distinguishable bright colored colonies. High correlation with plate count agar. Occupies only 5% space compared to traditional plates. Reduces waste.

Rapid Bio Mass Detection System

Accurately measures true living biomass health and concentration. Measures and differentiates between living biomass, dead biomass, and inert solids. Complete results within 5 minutes, allowing real-time assessment of bio-reactor efficiency.

Mini Ambient Air Quality Monitoring System

- Measures SO2, NO2, CO, CO2, O3, PM2.5, PM10, Temp., RH, Noise, Light, UV, Pressure.
- Mountable on poles.
- Real time hot spot analytics.
- Innovative IoT Solution with cloud server.
- Solar powered battery.
- Advance Analytics & Trends.
- Mobile and Email Alerts.

Portable FTIR Ambient Air Analyzer

- World's smallest, portable, and IP54 splashproof multigas FTIR analyzer.
- Laboratory-level accuracy in a small & portable package.
- Capable of measuring up to 50 gases simultaneously.
- 500 gas library to choose from.
- Ability to identify unexpected gas components.
- Extremely versatile – you only need one analyzer.
- Easy to use, Quick set-up and results.
- With Battery & Wireless communication.

Portable Single & Multi Gas Detectors

- Single replaceable gas detector designed to detect oxygen deficiency and presence of toxic gas viz., O_2, CO, H_2S, H2, SO_2, NH_3, NO_2.
- Multi Gas Detector measures 4 major gases, which cause most of the industrial accidents, to protect workers from the disasters caused by the Oxygen deficiency, Toxic gas poisoning and gas explosion viz., O2, CO, H2S & Combustible Gas (CH4)
- Continuously monitors & alerts user using LED, vibration and alarms.
- Excellent water / dust proof structure. Intrinsic Safety
- Easy check & calibration via Docking Station

Personal & Portable VOC Monitors

- Patented auto-cleaning sensor technology and Reflex PID Technology™.
- Wide measuring range of 0-15,000 ppm.
- Available with 1 ppb sensitivity also.
- 3 second response.
- IP 65/67 water-proof and dust-tight.
- Built-in man down alarm.
- Benzene monitoring can be done with Sep™ tube

Combustible Gas Leak Detector

Combustible gas leak detector has a long, slim gooseneck probe to detect the presence of combustible gases in tight areas. It's adjustable alarm, easy one-hand operation and impact resistance storage case add up to value and convenience. Probe length : 410mm

Handheld Odor Meter

Most popular simplified tool for odor analysis. Indicates the relative strength and odor classification numerically by comparing odor gas and purified air. The reading shown on display is calculated based on our original principle. Finding odor source at factories, incinerator plant, or ETP facilities. Evaluation of deodorizing at hospitals, nursing homes etc.

Portable Piezobalance Dust Monitor

Measures PM_{10}, Respirable, or $PM_{2.5}$ particle matters. Real-time measurements of dust concentration. Data logging up to 500 measurements. The Data can be reviewed on-screen, printed or downloaded to a computer. Has a simple cleaning mechanism for easy maintenance.

Innovative Handheld Particle Monitor

Displays 6 particle sizes simultaneously (0.3, 0.5, 1.0, 3.0, 5.0, 10.0µm) in cf or m^3. Large, 4.3-inch full-color touchscreen. 0.3 micron minimum sensitivity. Store up to 10,000 measurements. Compact and Light weight. Remote control software. Control and monitor the instrument remotely through a PC.

Portable Particle Counter

- Simultaneous measurements of 6 particle sizes viz., 0.3µm, 0.5µm, 1.0µm, 3.0µm, 5.0µm, 10.0µm.
- Available in 100, 50.0, 28.3LPM flow rates.
- Small footprint. Stainless steel enclosure.
- Large touch screen. Stores 10K measurements.

Anemometers

- Kanomax anemometers can simultaneously measure Air Velocity, Air Flow , Static Pressure, Temperature and Humidity of the indoor environment.
- It is ideal for HVAC ventilation testing and balancing, laboratory control, fume hood performance testing, IAQ investigations, and industrial testing.

Handheld IAQ Monitor

- Inexpensive multimeter that simultaneously measures and records CO_2, humidity and temperature.
- It also calculates the dew point and wet bulb temperature.
- Data can be downloaded, saved and analyzed.
- Up to 40,000 data point memory
- Large display with backlight
- NDIR sensor with automatic calibration

CO_2, RH & Temperature Display

- Simultaneously measures and records CO_2, Relative Humidity and Temperature.
- Large, easy-to-read display
- Can be configured directly with buttons and stored data can be exported to a USB stick for analysis.
- **Applications:** IAQ of Classrooms, Meeting Rooms, Open-Plan Offices, Shopping Centres, Fitness Studios etc.

IAQ Monitor With Particulates

- Measures upto 7 different parameters simultaneously including Particulates, VOCs, Toxic Gas, CO_2, RH, Temp & Air Velocity.
- Time history data logging and displays instantaneous levels, Min, Max, AVG, STEL.
- Particulates in 4 different sizes by rotary Impactor.
- Gravimetric analysis is possible by built in filter cassette.

Sound Level Meters

Sound level meters are designed for measurement of workplace noise levels to determine the degree of hearing protection that may be required. It offers an integrating feature that computes the average sound pressure level.

- Sound Detector is a basic Integrating Sound Level Meter
- Sound Examiner is with Data Logging and and PC interface by using powerful DMS Software
- Sound Professional is widely used for advanced research applications with 1/1 & 1/3 Octave Filter analysis.

Noise Dosimeter

Powerful & intuitive instruments designed for identifying hearing loss threats. Compact, 3-ounce (85 grams) unit mounts easily to the shoulder. Large color OLED display - easy reading. LED dose indicator flashes when dose level has been exceeded. Equipped with two independent dosimeters that can simultaneously measure against separate industry standards.

Heat Stress Monitors

Wet Bulb Globe Temperature Heat Stress Monitors calculate and display a WBGT Index value that considers the effects of ambient air temperature, humidity, air flow (which provides an evaporative cooling effect to the body) and radiant heat from sources such as the sun, furnaces, ovens, and boilers.

- QT32, QT34, and QT36 heat stress monitors are with conventional wet bulb sensor.
- QT 44, 46 and 48N heat stress monitors are engineered with waterless wet bulb sensor.

Vibration Analyzer

- Six-channel Human Vibration Meter and Analyser.
- Meets requirements of ISO 8041:2005, ISO 2631-1,2&5, ISO 5349.
- Enables simultaneous measurements with two triaxial accelerometers (e.g. both-hands vibration or triaxial SEAT transmission measurements).
- Low frequency measurements and Real-time frequency analysis

Light Meter

Easy View Digital light meters are for industrial and building audit usage with footcandle and Lux measurement modes.

- Quality of light in schools and the work place affects the Quantity & Quality of student and worker performance.
- Ensures the level of brightness in direct sunlight or any high intensity light source.

Radiation Meter

Measures alpha, beta, gamma & x-rays. It has a digital display, a red count light and a beeper that sounds with each count detected. Other features include an adjustable timer and selectable alert. Optional Bluetooth Module.

Personal Air Samplers

- Designed to collect air samples into different sampling media based on various hazards and guidelines.
- Sampling pumps are available with variety of Flow ranges and sampling features to suit various applications.

Area Sample Pump & Cascade Impactor

Sioutas Impactor and SKC Leland Legacy® Sample Pump operated at 9 L/min ensure precise particle separation on the filters at each stage. Patented Sioutas* Cascade Impactor collects particles in five size ranges: > 2.5 µm, 1.0 to 2.5 µm, 0.50 to 1.0 µm, 0.25 to 0.50 µm, and < 0.25 µm.

Grab Air Bag Sampling Pump

For grab-and-go bag sampling gases / vapors. Operates at a fixed flow rate of 1 L/min. Collects approx. 1000L in sample bag on one battery. Recommended for use with sample bags up to 10-liter size. Simple, quick, economical - Grab Air.

Direct Reading Instruments

HAZ-DUST I Real-Time particulate monitor provides accurate and instantaneous data on airborne particle concentration. Designed for industrial hygiene, indoor air quality, and hazardous materials investigations

HAZ-DUST IV, with new infrared detector, displays quick breathing zone measurements of aerosol and dust for industrial hygiene and environmental air investigations. Possible specific particle fractions by inhalable, thoracic, or respirable sampling heads. An in-line 37-mm cassette is used to do filter sample for gravimetric or chemical analysis.

Portable Environmental Particulate Air Monitor

- Uses light scattering to measure particle concentration and provide immediate real time determinations and data recordings of airborne particle concentration in milligrams per cubic meter (mg/m^3)
- Interchangeable size : Selective sampling heads allow PM_{10}, $PM_{2.5}$, or $PM_{1.0}$ monitoring.

Personal Real-Time Aerosol Compliance Monitor

Measures all lung damaging particles and aerosols. Flow compensated pump for OSHA & NIOSH compliance monitoring. Compatible with any pre-loaded 37 or 25mm filter cassette. Tested & validated selective size inhalable and respirable sampling inlets. Miniaturized optical sensor mounts in OSHA defined breathing zone.

Alcohol Breath Analyser

Alcohol Breath Analyzer for a variety of applications in roadside testing, workplace safety, and the rehabilitation programs.

- Certified according EU standard EN 15964
- Mouthpieces with certified biocompatibility
- Stores 9,999 measured values with date and time

Kjeldahl Apparatus

- Designed to meet the most challenging demands and requirements for diverse applications, according to international standards: Kjeldahl nitrogen TKN, proteins, ammoniacal nitrogen, nitric nitrogen, Devarda, phenols, TVBN and volatile acids, cyanides, and alcohol content.
- Can address few samples per day to unattended operations
- Full range of sensors and safety systems.

Melting Point Apparatus

Automatic Melting Point Apparatus perfectly integrate video technology into melting point measuring. It not only provides users with reliable melting point test result, but also intuitively displays temperature curve and real-time video image, and achieves the function of save, replay the video etc. It provides better help for users to observe melting process of sample.

Flash and Fire Point Tester

- Automatic Cleveland open Cup (CoC) flash point tester (ASTM D92, ISO 2592 etc.)
- Measures and describes the properties of a sample in response to heat and a test flame under controlled conditions.
- The flash point measures the tendency to form a flammable mixture with air while the fire point indicates the tendency of sustained burning.
- Suitable for flash & fire point testing of lubricants & bituminous material.
- Safety: automatically lights up the test flame, relights it, and suppresses the gas source at the end of the test

Digital Lab Refractometer

Can be comfortably operated by touchscreen. It has an integrated peltier thermostat for efficient temperature control, which allows very short measuring times at maximum accuracy.

Digital Jar Tester

6 Independent light source for each stirring point. Digital display. Digital feedback control using microprocessor : stable and accurate stirring speed. Geared DC motor and specially designed timing belt used. Programmable operation.

Microscope

The instrument is a professional inverse microscope, for identification and analysis of biological substances and cultures, includes mirror reflex and video camera connection via photo and C-mount video adapter.

Auto Titrator

- High resolution pH/mV-electrode & temp. inputs for pH, ISE, redox (ORP) or photometric titrations
- Polarizable electrode input for set endpoint titrations ("dead-stop")
- Linear (fixed increment) and dynamic equivalence point titration mode

Rotary Evaporator

- Heating bath capacity: 2.5Lit oil bath,
- Up to 200℃, for 0.1~2Lit evaporating flasks
- Evaporator and heating bath have the individual digital control system.
- For concentration, crystallization, drying, separation and solvent recovery.

Viscosity Meter

- Multi speed digital rotational viscometer.
- LCD screen displays measured parameters.
- Speed: 0.1~100 rpm.
- ASTM Standard spindle kit.
- With power safety, error msg, sound alarm.
- Applications: Grease, Paints, Food, Paper, Cosmetics, Chemical, Capsule stickiness etc

TOC Analyzer for Solid Samples

- Measure carbon content in soil, sludge, sedimentation, and other solid samples.
- Measures samples upto 1g with upto 30 mg carbon content
- Measures inorganic carbon (carbonate) in solid samples.
- Measures aqueous samples containing large quantities of suspended substances.

CHNS-O Elemental Analyzer

All-in-one solution for determination of Carbon, Hydrogen, Nitrogen, Sulfur, and Oxygen in organic matrices. Based on Gas Chromatographic technology. Ensures complete separation of all elements and real-time peak data. Seamless switch from CHNS to O mode. Precise determination from few ppm to 100% for solid, paste and liquid samples.

Ash Fusion Analyzer

Determines four critical temperatures: Deformation Temp., Softening Temp., Hemispherical Temp. and Fluid Temp. Fully automatic instrument. Uses image analysis. Up to 6 samples can be analysed in each batch. Maximum furnace temperature: 1500℃. Programmable ramp rates from 1℃ to 12℃.

Digital Muffle Furnace

Patented jog-dial control system and digital LCD with back-light function. Exposed heating elements-type. With digital PID control. Short heat-up time. 4-side heating. Ceramic fiber plate. CE certified. 3~63 Lit. capacity. Upto 1000℃. For Ash-Determinations, Enameling, Fusions, Precipitate Drying.

Hot Air Oven

Digital fuzzy control System implementing superior temperature accuracy. Optimized air flow by gravity convection mechanism. Jog-dial control system. CE certified. The best temp. uniformity & accuracy by high performance heating mechanism : 3-side heating. Suitable for Drying, Baking, Conditioning, Curing, Pre-Heating and Aging.

Laminar Air Flow Clean Bench

- Vertical air flow with 8 steps air velocity control.
- Class 100 HEPA filter (with mesh guard) of efficiency up to 99.97% & 0.3 micron size.
- Dual UV lamp and florescent lamp with protection.
- Touch controller.
- High-quality back-light LCD.
- Tempered safety glass sliding door for protection from against UV.

Glove Box

- 10mm panel made of acrylic glass (PMMA)
- With natural rubber glove and transfer chamber.
- Excellent viewing & air tight structure.
- Vacuum gauge on transfer chamber.
- Main chamber foot switch for control internal pressure, humidity and oxygen.
- For isolating sensitive research studies from a hostile exterior environment.

Microbial Air Sampler

A simple well known air sampler to be used by Industrial Hygienists for "SBS" (Sick Building Syndrome) and "HVAC" (Heating Ventilation Air Conditioning)

Rapid sample collection device for collection of microbial & fungal count by using Petri Dishes. Air flow rate : 100 liters per minute

Digital Colony Counter

- Pressure sensor system provides uniform sensitivity.
- Adjustable focusing arm allows 1.5x standard lens to be raised or lowered.
- Accepting up to 150 mm petri-dishes.
- Marking pen counting (Any pen)
- Background plate can be changed to white or black for easy counting.

Gel Document Imaging System

- DNA, RNA gel imaging capture and analysis.
- Digital CCD camera & optical lens.
- With portable darkroom hood.
- 8-bit gray level image capturing.
- Easy and fast capture of gel image.
- CE certified.

Water Activity (ERH) Meter

- High precision and resolution for measurement of water activity / Equilibrium relative humidity (ERH).
- With Digital Sensor Technology.
- Easy to operate.
- Non-destructive measurement.
- Absolutely no maintenance and no recurring cost.
- Sorption Isotherm can be generated for moisture content measurement.
- Suitable for the laboratory and Production site/on-site monitoring applications

ATP+ADP+AMP Rapid Hygiene Monitoring Device

- With ATP+ADP+AMP bioluminescence technology.
- Provides a simple rapid test method for monitoring degree of cleanliness, hygiene and risk and acts as first step to HACCP.
- One of the quickest and most useful methods of finding and tracking the source of bacteria that can contaminate food.
- The advantages of the ATP+AMP method are: quick, highly sensitive, simple to use, cheap to use improvements in product quality and shelf life.

Autoclave

- Digital fuzzy-control autoclaves.
- With electronic door lock system.
- Lever-type sliding door.
- Solid/Liquid modes.
- Patented special steam condensing mechanism.
- Patented jog-dial control system
- Digital LCD with back-light function.

Incubator

- Air flow : forced-air
- 3-Side heating mechanism : the best temp. uniformity & accuracy by high performance heating mechanism
- Incubator temperature & incubator current protection, sensor error detection
- Application : Microorganism culture, Animal & Plant cell culture, Constant temp, germination, etc

BOD Incubator

- Forced air flow. Patented jog-dial control system
- CFC-free (R-404A) refrigeration system
- Internet connectivity with Wi-Fi
- Remotely controls the experimental equipment by building Smart-Lab™ system through WiRe™ app & web service
- Compressor overload protection.
- Over temperature & over current protection, sensor error detection and leakage breaking
- Applications: Animal/Plant cell culture, constant temp. germination test, BOD test, etc.

Freezers

- To store chemicals, tissue cultures and food products.

UNI FREEZE (Temp. range: -86°C to -65°C)
- UniFreez™ U" System can freeze down to -86°C : realize robust and long life time.
- Uses single compressor
- Capacity: 25L, 82L, 393L, 503L, 714L, 796L

Duo Freeze (Temp. range: -95°C to -65°C)
- DuoFreez™ System can down to -95°C, If One System fails in operation, the other System still Maintains down to -80°C
- Uses dual compressor
- Capacity: 393L, 503L, 714L, 796L

Digital Orbital Shaker

- 10~300 rpm, Low noise & Long life cycle.
- With programmable digital feedback control.
- Available rubber mat-/universal-platform, without platform.
- Optimal platform rotation for intensive mixing.
- High precision digital rotation speed control.
- Ideal for culturing cells to hybridization, staining and destaining gels and combinatorial chemistry.

Multi Hot Plate Stirrer

- Systemized 3- and 6-Hotplate stirrer independent heating and stirring control
- Ceramic coated plate-chemical/acid resistance
- Temp. Range & Accuracy Max. 350℃, ±0.3℃ at set temp
- Speed & control resolution 80 ~ 1,500 rpm, 5 rpm
- Analog and digital models available

Digital Ultrasonic Cleaner

- Multi-frequency sonication body.
- Temperature range from ambient to 80℃.
- Maximum 60 minutes of cleaning time.
- Degassing for very strong cleansing.
- Useful for cleaning to remove dirt, grease, waxes and oil from all lab instruments by ultrasonic frequency.

Water Bath

- With fuzzy control system, superior temp. accuracy
- Patented jog-shuttle control system and digital LCD display
- User's self-compensation function
- 304 stainless steel bath & lid for superior durability & high thermal efficiency/constant.
- Locking mode supported for experimental safety (Input to jog-shuttle can be disabled).

Shaking Water Bath

- Digital precise shaking water bath with quiet reciprocating motion.
- Patented shaking mechanism : minimum noise and vibration
- Patented jog-dial control system and digital LCD.
- Ideal for direct immersion of samples or shaking in the field of biotechnology and laboratories.
- Hybridization applications, Cell cultures, Cell aeration, Increasing solubility rates, Molecular biology assays, Bacterial culture.

Lab Fermentor

- High density fermentation
- Accurate PID temperature sensor
- Wide range vessels from 0.5 to 14 liter
- Individually controlled 4 peristaltic pump for pH, DO, anti-foam & feeding.
- Easy control of external devices

Digital Rocker

- Programmable digital rockers
- Digital feedback control, 5~50 rpm
- High precision digital speed control : 1rpm
- Smooth start & and change of rocking speed, tilt angle ±6 / ±9 degrees.
- Digital timer, LCD, alarms.
- For Gel Staining, Destaining, Blotting, Cell Culture, Washing Hybridization etc.

Compact Multifunction Mixer / Rocker

- Speed 24rpm at 60Hz / 20rpm at 50Hz.
- Ideal for dishes and 1.5-50ml tubes.
- Smooth, quiet & continuous operation.
- Rubber cushion prevents test tubes from slipping.
- Widely used in Hematology, Chemistry, Research and Bacteriology labs.

Homogenizer

- High efficiency dispersing tool made of stainless-steel and PTFE
- Speed range : 27,000 rpm. Working range: 1 ~ 2,500ml
- Dispersing tools and Rotars available for different volumes depending on the application.
- Designed for liquid and tissue samples, for all dispersing and homogenizing applications

Freeze Dryer

- Ergonomic design and compact body size.
- Automatic / manual process control.
- Rapid integrated hot gas defrost function.
- LCD indicates temp and vacuum.
- Homogenous temp distribution across all shelves in dry chamber.

Vortex Mixer

- Gentle mixing to re-suspending pellet.
- Variable speed upto 3300 rpm.
- Continuous-run or touch-activated run modes.
- Variable speed for gentle to vigorous mixing.
- Circular orbit. Minimal vibration. Ultra stability.
- Ideal for mixing solutions in test tubes or small flasks with circular, oscillating movement.

Laboratory Centrifuge

- Unbelievably quiet operation. High performance.
- Spin down function. Storage function.
- Locking mode. CE certified.
- Applications in Plasmid, DNA & RNA work, Proteing work, Cell culture, Cell harvesting, subcelular separations etc.

Humidity Chamber

- Precise temperature control and humidity.
- Smart-Lab™ controller : Controlled by smart-phone
- For long-term stability testing in cosmetics, and food industry, Growing of plants or seed, Test property of textiles, building materials, plastics, composites, adhesives, metals, electronic components, etc.

Plant Growth Chamber

- Inner tempered glass door with silicone packing for easy observation.
- Smart-Lab™ controller provides precise temp., RH & illumination control.
- 3-/4- Side light bank system : Intensity of light is controlled by 8-levels and displayed on LCD
- Over temperature & over current protection, sensor error detection, leakage breaking.
- Suitable for plant growth, stability, product shelf-life QC testing.

Weather Monitoring Station

It is a Complete, Self-contained, Digital Meteorological Monitoring System that provides instant access to weather information like:

- Wind sensor for Speed & Direction,
- Temperature & Relative Humidity,
- Solar Radiation / Sunshine Duration,
- Barometric Pressure,
- Precipitation for rainfall evaporation.

Data logger with 200 day storage capacity & provision for password protection & software with wind rose charts.

Soil Moisture/EC/Temperature Sensor

The salinity of the root zone is a critical element for healthy plant growth. High levels can damage the plant. Low levels can lead to nutrient deficiencies. Identify situations where soil salinity is an issue or where certain moisture and temperature conditions facilitate soil-borne diseases.

Chlorophyll Meter

- Instantly measures chlorophyll content or "greenness" of your plants to reduce the risk of yield-limiting deficiencies or costly over-fertilizing before it is visible to human eye.
- Non-invasive measurement in less than 2 seconds.
- Assess nitrogen needs as Research shows a strong correlation between SPAD measurements and leaf N content.

Soil Test Kit

Rugged, lightweight carrying cases with components securely mounted in removable foam-lined trays. Technically advanced reagent systems and unique extraction procedures provide fast, simple and extremely accurate soil testing. For 15+ parameters.

Soil Moisture Meter

- Portable unit, accurately measures across the full range of soil moisture conditions.
- Select from the 1.5, 3, 4.8 or 8-inch (3.8, 7.5, 12 or 20-cm) probe rods.
- Install PVC access tubes for deeper readings
- Quick and easy. TDR technology. GPS-compatible data logging equipment!

Soil Compaction Meter

Measure soil compaction to monitor moisture penetration, fertilizer and chemical uptake, avoid anaerobic microbes build up conditions. In some cases, yield losses as high as 30% can be prevented.

- To determine the density of soil and other material.
- Take reading upto 60cm depth
- Records 772 data points

Nutrient Meters

For proper plant nutrition measure nutrient solutions, soils, greenhouse soilless media, water samples and tissue sap for Ca, NO_3, K, Na, pH & EC (Conductivity).

Portable Digital Microscope

Combines a digital camera, precision optics and LED lighting into a powerful handheld microscope and imaging software package. Place the IPM Scope over the leaf and view the magnified image right on your computer screen. Zoom in on fine details of plant disease symptoms, or insects.

Reliable supplier for quality scientific and analytical instruments to Academic Institutions, R & D Institutes, Industries with committed after sales support.

GENERAL LAB SOLUTIONS: Kjeldahl Distillator & Digestor, Refractometers, Polarimeter, Digital Microscope & Videoscope, Auto Titrator, Vortex Mixer, Melting Point Apparatus, Viscosity Meters, Centrifuges, Muffle Furnace, Hot Air Ovens, Plant Growth Chambers, Fat Analyzer, Graphite Digester, Waste Gas Collection Hood, Exhausting System

THERMOMETERS: Compact Infrared Pointers, High Range Infrared Pointers, With Max/Min, Infrared Thermometer With Laser Pointer,

WATER TESTING: Total Organic Carbon (TOC) Analyzer, Water Purification Systems, BOD System, COD System, Spectrophotometers, Colorimeters, Handheld Meters, BentchTop Meters, Trimeter, Pocket Testers, Rapid TC & E.coli Systems, Rapid Bio Mass Detection System.

LIFE SCIENCES: Water Activity (ERH) Meter, ATP+ADP+AMP Rapid Hygiene Monitoring Device, Laminar Air Flow Clean Bench, Glove Box, Microbial Air Sampler, Digital Colony Counter, Autoclave, Incubator, BOD Incubator, Freezers, Humidity Chamber, Multi Hot Plate Stirrer, Digital Ultrasonic Cleaner, Water Bath, Shaking Water Bath, Digital Orbital Shaker, Digital Rocker, Compact Multifunction Mixer / Rocker, Homogenizers, Rotary Evaporator, Gel Document Imaging System, Freeze Dryer, Lab Fermentor, CHNS-O Elemental Analyzer

AGRICULTURE & SOIL: Total Organic Carbon Analyzer (TOC), Weather Monitoring Station, Rain Gauge, Soil Moisture/EC/Temp. Sensor, Chlorophyll Meter, Soil Moisture Meter, Soil Compaction Meter, Nutrient Meters, Soil Sampler Probes, Water Activity (ERH) Meter, Fruit Texture Analyzer, Heavy Metal Analyser, 5-in-1 Environment Meter, 4-in-1 Soil Survey Instrument

FOOD & BEVERAGES: Color Spectrophotometer, Near Infrared Analyzer, Cooking Oil Tester in

Food, Digital Cooking Probe Thermometer, Catering Test Digital Meat Thermometer, Milk Analyser, Beer Analyser, Haake Viscotester, Viscometer According To Höppler, Head Space Analyser (O2 & CO2),

PHYSICAL SCIENCES: Density meters, Rheometers, Spectrometers, Viscosity Meters, Texture Analyzer

AUTOMOBILE / ELECTRONICS: Digital Engine Exhaust Diluter, Engine Emission Testing Analyser

AIR QUALITY: Ambient Air Monitoring Station, Continuous Emission Monitoring Systems, Water Quality Monitoring System, BTEX Monitoring Systems, Portable FTIR Gas Analyser, Portable Multi Gas Monitor, VOC Monitors, Benzene Monitors, Portable Gas Detectors, Portable Environmental Particulate Air Monitor, Aerosol Monitor, Particle Counter, Dust Monitor, Odor Monitor, Portable Emission / Combustion Analyser

HEALTH & SAFETY: Sound Level Meter, Noise Dosimeter, Heat Stress Monitor, Vibration Meter, Light Meter, Alcohol Breath Analyzer, Air Samplers, DGMS Approved Dust Sampler, Direct Reading Instruments, Indoor Air Quality Monitors

GAS DETECTION: Continuous Benzene Monitor, Continuous VOC Monitor, Continuous Gas Detectors, CO2 Transmitter, Single Gas Detectors, Multi Gas Detectors, Portable Emission / Combustion Analyser, Combustible Gas Leak Detector, Colorimetric Gas Detection Tubes

REFINERY AND PETROCHEMICALS: Sulfur In Oil Analyzer, Continuous Benzene Monitor, Continuous Corrosion Monitor , Portable VOC monitor, SF6 Leak Detector (Fixed / Transportable), Gas Leak Detector

We also undertake Turnkey Solutions for lab set ups.