Instruments For

Food, Pharma, Oil, Water & Waste Water

![Spectralab — everything analytical]

Titration

Karl Fischer Titrator · Automatic Silver Titrator · Automatic Potentiometric Titrator · KF OVEN · Coloumeter

Models with basic functions are also available for small laboratories, process control labs, intermediate testing & educational institutes.

Applications

Acid base, Non Aqueous, Redox, Argentometric, Precipitation, Complexometric, Enzyme activity, EDTA, Tan / TBN, pH Stat surfactant analysis moisture in solvents & transformer oil.

Automatic Potentiometric Titrator
AT 38 C

(GLP Compliant)

Two line alphanumeric display

RS 232 Interface

Proven model for two decades

Soft touch membrane keyboard

Two line alphanumeric display

RS 232 Interface

Proven model for two decades

Soft touch membrane keyboard

Karl Fischer Titrator
MA 101 C
For moisture estimation

(GLP Compliant)

![Spectralab - everything analytical]

Automatic Potentiometric Titrator

Agile

21 CFR Part 11 Compliant

- Stand Alone or through PC
- On line curve
- Remote Access
- 5 pt. pH calibration
- Burette recognition
- Touch Screen
- Pen Drive connectivity

Karl Fischer Titrator

Whiz

For moisture estimation

21 CFR Part 11 Compliant

Burette recognition
Stand Alone or through PC
Pen Drive connectivity
Remote Access
Touch Screen

KF Oven

Accessory for KF Titrator

It can be used with all the models of KF titrators for estimating moisture in materials like polymer-chips & granules, oils, fibres, foils, foods, fats & dairy products

Coulometer

Nimble

21 CFR Part 11 Compliant

Spectralab Nimble is compatible with all types of Coulometric reagents single or double or dedicated reagents for specific Coulometic titrations.

Using BIS 2113 method to find out purity of silver is easy by Spectralab Silver Titrator AG 1
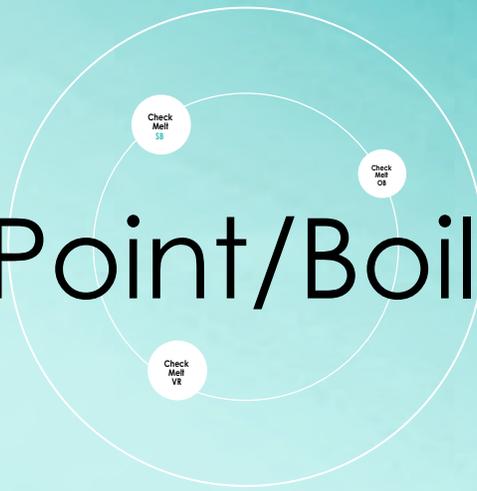
Exact & Accurate measurement of purity

Automatic Silver Titrator

Ag 1

GLP Compliant

Melting Point/Boiling Point

Check Melt SB
Check Melt OB
Check Melt VR

Automatic Detection

Automatic Melting Point with **Video Recording**

Aluminium block

Stand Alone or through PC

Melting Point / Range Apparatus

Check Melt VR

21 CFR Part 11 Compliant

Melting / Boiling Point Apparatus

Check Melt OB

GLP Compliant

Both Melting & boiling point

Temperature range (Ambient +5)°C to 300°C

Uses Oil Bath

Manual Detection

Both Melting & boiling point

Temperature range (Ambient +5)°C to 400°C

Uses Solid Aluminium block

Manual Detection

Melting / Boiling Point Apparatus

Check Melt SB

GLP Compliant

Kjeldahl
Nitrogen
Analyzer

Composite
Sampler

Water
Parameter
Titrator

COD
Digestor

COD
Analyzer

Thermoreactor

Turbidity
Meter

Water/Waste Water

COD Analysis System

Spectralab offers various options to suit the type of industry, all are as per APHA method and accepted by the authorities.

The APHA method requires digestion of samples using Potassium Dichromate and Silver Sulphate acid for 2 hrs. at 150°C. Spectralab offers various models of digestors, glassware handling kit for safe and convenient working and a specifically designed titrator or colorimetric analyzer

COD Digestor

2015 M 1 / 5015 M 1/ 2015 D / 2006 D

Open Reflux

(APHA / EPA Compliant)

1) Open Reflux Digestors : Models 5015 M 1, 2015 M 1, 2015 D, 2006 D. Large sample facilitates more representative analysis. Air condensors help digestion without losses.

It's a closed reflux digestor & can be used for COD estimation with very small quantity of sample (2 ml to 5 ml). Dichromate, sample & Sulphuric acid are supposed to be taken in same proportion (1:2:3 respectively). As the sample quantity is very less the results by this method are rough for estimation. Apart from COD estimation this type of digestor can be used for many other applications.

COD Digestor

CR 25

Closed Reflux

(APHA / EPA Compliant)

![Spectralab logo - everything analytical]

Thermoreactor

TR 25 F

It is a closed reflux digestor used for digestion applications & can also be used for COD estimation with very small quantity of sample.

COD Analyzer Model G 1

7" touch screen TFT Display
Vial Size 16 mm Diameter
Easy to use built in menu-driven instructions
Storage up to 1000 reports
Two wavelengths, for 0 to 100 ppm COD range
& for 100 to 900 ppm COD range.

For testing of other parameters. In addition to COD, the other parameters are Nitrate, Iron, Nitrite, Zinc, Ammonium, Copper, Silica, Arsenic can be measured with suitable reagents.

COD Analyzer

G1 / G1 plus

Closed Reflux

(APHA / EPA Compliant)

Water Parameter Titrator

Toyam

(APHA / EPA Compliant)

Titrations for Chloride, Fluoride, Kjeldahl Nitrogen, Total hardness, Calcium Hardness, Magnesium Hardness, Dissolved Oxygen, Acidity, Alkalinity, COD

Ideal for collection of effluent samples from a stream at pre-programed intervals. Since with this device you will get composite collection of sample which in turn will reduce analysis time & cost.

Composite Sampler

CS - 10

Kjeldahl Nitrogen Analyzer

KNA

Spectralab Kjeldahl Nitrogen Analyzer KNA consist of a Digestion Unit, a Scrubber Unit & Steam Distillation Unit. Various models of digestors, scrubber & distillation unit are available. Our KNA leaflet describes this product in details which may be referred.

Applications:

1. Total Ammoniacal Nitrogen
2. Protein in Food and Feed products.
3. Total Nitrate Nitrogen.
4. Total nitrogen with high ratio of Cl:NO2
5. Nitrite Nitrogen
6. Total Nitrogen in Fertilizers.
7. Nitrogen in Effluents.

Turbidity Meter

Spectralab Model NT 4000 Turbidity Meter is the most advanced portable microcontroller based Turbidity Meter. It is based on nephelometric and ratiometric principles of turbidity measurement. It uses LED & meets EPA 180.1 and ISO 7027 as well as an infrared ratio (IR ratio) mode that gives results in accordance with EPA GLI method 2. It has a memory to store 40 results. The data can be transferred to PC & then printouts can be taken in a document format with report number, date & time.

Nephelometric / Ratiometric

RS 232 for PC & Printer

Long life LED source

4000

Upto 4000 NTU,

Turbidity Meter
NT 4000

EPA 180.1 / ISO 7027 Compliance

pH, Conductivity, etc...

Instruments for Physical Parameters :

pH, mV, ORP, ISE, Conductivity, TDS, Salinity, DO, Temperature, Turbidity

3 pt pH calibration

Optional ORP

0.01 pH resolution

pH Meter
Eco pH

pH Meter
Insta

pH, mV, and temperature displayed parallely

Comes with an ergonomically designed electrode holder

Continuous Monitoring

Can be operated with 9V battery as well as 12V adaptor

Lightweight and compact

"Classique" & "Serene" models
for pH, Conductivity etc........

Spectralab offers instruments to monitor almost every parameter. Depending on your need & convenience you can select either a single instrument for every parameter or a combined unit for two or more parameters.

There are 2 categories the products which are only GLP Compliant are in the "Serene" series where as the products which are 21 CFR part 11 compliant are in the "Classique" series.

![Spectralab logo] **Spectralab** everything analytical

Common features of "Serene" & "Classique"

- Corrosion resistance HIPS plastic body.
- Easy to use - built in Menu-driven instructions on 7" touch screen TFT Display.
- Mouse and keyboard connectivity.
- Direct connectivity (without PC) for wi-fi, network or USB printer (printer having Linux support).
- Pen drive connectivity.
- GLP Compliance Reports with Time, Date and Sample identification number facility.

- Calibration methods can be stored.
- 1000 Reports can be stored.
- Data Auto logging.
- 21 CFR Part 11 Compliant.
- Inbuilt audit trail.
- Data Archive & Backup on network PC.
- Automatic temperature compensation.

21 CFR Part 11 Compliant Models "Classique" Series

Special features of "Classique" series :

21 CFR part 11 compliant, Inbuilt audit trail, Data Archive & Backup on network PC

pH Meter
Classique pH

pH Range   : 0 to 14.000
pH resolution : 0.001
pH accuracy   : $\pm$ 0.01
pH calibration : 1 to 5 point

Conductivity Meter
Classique CON

Using Classique CON you can measure temperature, conductivity, resistivity, TDS & Salinity

pH Conductivity Meter
Classique pH CON

Combined instrumenet for pH & Conductivity

Dissolve Oxygen Meter
Classique DO

Range   : 0 ppm to 20 ppm
Resolution   : 0.001ppm
Accuracy   : $\pm$ 2% FS
Units   : ppm

![Spectralab logo]

Fluroide ION Meter
Classique FI

ION Range	: 0 to 10000 ppm
Resolution	: 1 LSD (0.001)
Accuracy	: ± 0.1 mV
Calibration	: 1 to 5 point

ION Meter
Classique ION

Range	: 0 to 10000 ppm
Resolution	: 1 LSD (0.001)
Accuracy	: 0.1 mV
Calibration	: 1 to 5 point

ION Selective electrodes to be ordered as per requirement

pH ION Meter
Classique PI

Combined instrument for pH & ION using ION selective electrodes of various IONs

Multiparameter
Classique Pragyan

Your all-in-one solution for multi-parameter measurement work

pH, mV, ORP, Conductivity, TDS, Salinity, DO, Temperature & ISE

GLP Compliant Models "Serene" Series

The Serene series instruments are GLP Compliant. The authenticity of the reports generated can be ensured with the date / time indication in the report. The reports can be seen on the display.

The specifications of Serene series are same as Classique series. Only difference is about 21 CFR part 11 compliant with inbuilt audit trail. Data Archive & backup on network.

"Serene" Series Models :

pH Meter Serene pH	Fluoride ION Meter Serene FI
Conductivity Meter Serene CON	ION Meter Serene ION
pH Conductivity Meter Serene pH CON	pH ION Meter Serene PI
Dissolve Oxygen Meter Serene DO	Multiparameter Serene Pragyan

Miscellaneous products
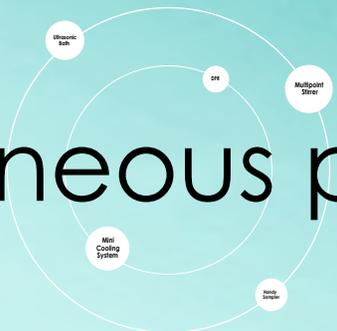
Multipoint Stirrer

Whirlmatic mega

Corrosion resistant

Maintenance free Ultraflat

Digital RPM indication

Accommodate 6 vessels of 1 ltr or 15 vessels of 100 ml

100 to 800 rpm

Mini Cooling System

Solid state heating / Cooling system for maintaining temp. of sample cell holders of Spectrophotometer, Refractometer, Polarimeter. Also as Viscosity Bath.
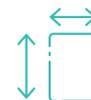
Handy Sampler
HDS 8D

It consist of pump, digital timer, rotameter with provision for holding sampling devices in a compact SS case. Operates on lithium ION rechargeable lead acid battery with built in charger. Suitable for gaseous pollutants & dust.

Ultrasonic Bath

Degassing of liquids

Various sizes from 3 ltr to 100 ltr & above

Sample Dissolution

Cleaning of parts

(Also available with Chiller)

Spectralab
everything analytical

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