Spectralab
everything analytical



Instruments For

Food, Pharma, Oil, Water & Waste Water

www.spectralab.biz

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Titration

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

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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

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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

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Melting Point/Boiling Point

Automatic Detection

Automatic Melting Point with **Video Recording**

Aluminium block

Stand Alone or through PC



Melting Point / Range Apparatus

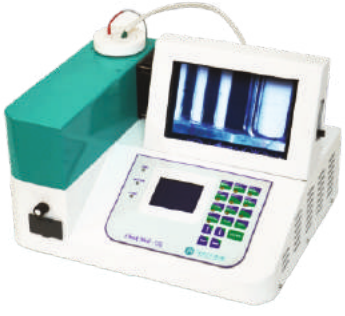
Check Melt VR

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

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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

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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

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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

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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

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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

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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.



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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	: ± 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	: 0.001 ppm
Accuracy	: ± 2% FS
Units	: ppm

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Fluroide ION Meter

Classique FI

ION Range	: 0 to 10000 ppm
Resolution	: 1 LSD (0.001)
Accuracy	: ± 0.1mV
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
- Conductivity Meter Serene CON
- pH Conductivity Meter Serene pH CON
- Dissolve Oxygen Meter Serene DO
- Fluoride ION Meter Serene FI
- ION Meter Serene ION
- pH ION Meter Serene PI
- 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

RPM

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)

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