



# Environmental & Scientific Instruments Co.



MICROPROCESSOR  
DISSOLUTION TEST APPARATUS

MICROPROCESSOR  
KARL FISCHER MOISTURE TITRATOR



UV-VIS SCANNING  
SPECTROPHOTOMETER



## MICROPROCESSOR FLAME PHOTOMETER-1382 & 1385

Microprocessor Flame Photometer, Model-1382 is an ideal instrument for the determination of sodium, Potassium, Calcium and Lithium. It uses the latest Microcontroller technology and advanced engineering techniques so as to give enhanced and reproducibility. It has soft touch membrane key for ease of operations. the solution is aspirated through an atomiser, Air sample and the fuel are mixed in the mixing chamber which is then sprayed as a very fine mist into the flame. The color of the flame is changed depending upon the concentration of elements present. The output of the photo-detector is then processed by the microcontroller and the final results are displayed on the digital display. The System has 5-Point calibration facility and no linearity correction is provided through an automatic curve fitting software. Facility has been provided for re-standardization with a single standard, thereby, eliminating the need of the multiple standards once a calibration has been performed.



### Features

- Microprocessor Based with Printer Interface
- Auto Gas Cutoff (Model - 1385)
- Auto Flame Failure Detection (Model - 1385)
- Curve Calibration Programmability Using Maximum of 5 Standards
- Multiple Calibration Curve Saving Facility

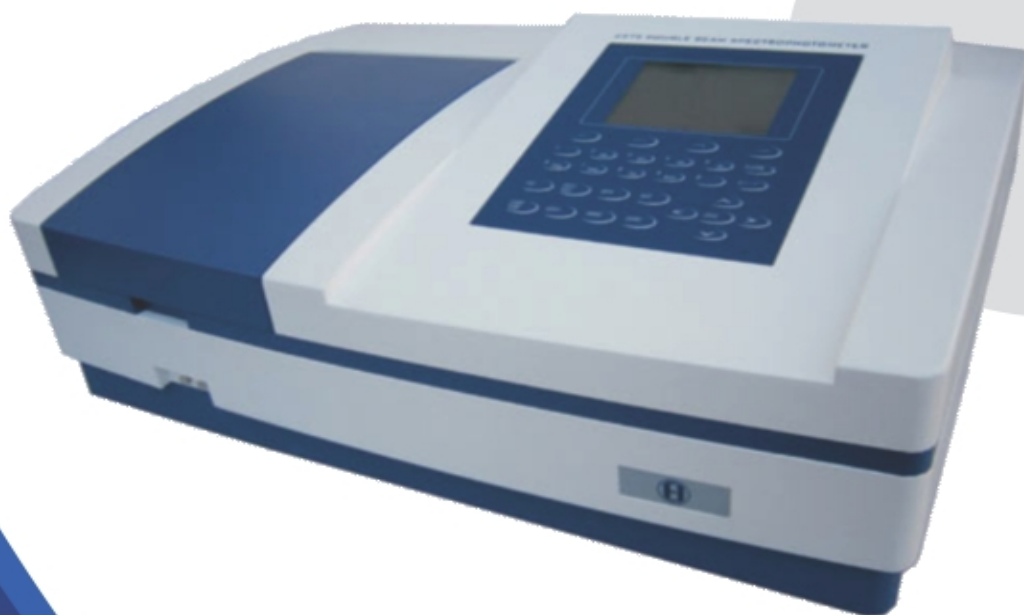


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## DOUBLE BEAM UV-VIS SPECTROPHOTOMETER-2375

Double Beam Spectrophotometer is a solid state microprocessor based instrument designed for quick and accurate spectrophotometric analysis of any concentration. It operates at a wavelength range of 190 nm to 1100 nm. The use of diffraction grating in the monochromator produces a linear spectrum. The grating having very high resolution of 1200 lines/mm ensures a narrow bandwidth.

The instrument is equipped with 5 Inches 320 x 240 dots graphical lcd the which makes the results easy to read. The system has soft touch numeric keys with complete numeric key that provides a convenient interface for entering numeric values. The instrument uses the latest microprocessor technology and advanced engineering techniques so as to give enhanced accuracy and reproducibility.



### Features

- Double Beam Optics
- Large 5 Inch Graphical Display
- Auto Wavelength Setting
- On-Screen Cuve Display



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## MICROPROCESSOR DISSOLUTION TEST APPARATUS 1918 & 1916

Microprocessor Dissolution Test Apparatus is a solid state instrument designed for the determination of active drug ingredient in any pharmaceutical formulation, tablet or capsule as per IP and USP specifications. This apparatus evaluates adequate bio-availability and provides necessary information to formulate in the development of therapeutically optimum dosage forms. The instrument is designed and manufactured for pharmaceutical industries. It is used in quality control and R & D to determine compliance with the dissolution requirement of the Tablet and Capsule as per USP/IP standards.



### Features

- Complies with USP, IP specifications
- Extremely Useful for Pharmaceutical Labs
- Highly Accurate and Easy to Operate
- Programmable Stirrer Speed Control i.e. (25 - 200 RPM)
- Printer Attachment Facility
- Audio Visual Indicators for System Status



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## MICROPROCESSOR SPECTROPHOTOMETER-1305

This is the most economical, reliable, rugged and accurate instrument for spectrophotometric analysis of any concentration. It operates at a wavelength range of 340 nm to 960 nm. The output is available on a 16 x 2 line alphanumeric backlit LCD display in terms of %Transmission (%T), Absorbance (Abs.), Concentration (Conc.) and KFactor.

### Features

- Highly Stable & Accurate
- Range 340 To 960 nm
- 16 X 2 Line Alphanumeric Backlit LCD Display
- Printer Attachment Facility
- Storage For 100 Samples
- RS-232C Computer Interface (Optional)
- Soft Touch Membrane Keys



### Features

- Highly Stable & Accurate
- Range 340 To 960 nm
- 16 X 2 Line Alphanumeric Backlit LCD Display
- Printer Attachment Facility
- Storage For 100 Samples
- RS-232C Computer Interface (Optional)
- Soft Touch Membrane Keys



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## MICROPROCESSOR K.F. MOISTURE TITRATOR-1760

Microprocessor KF Moisture Titrator – 1760 is the finest volumetric titrator available. It uses the latest microcontroller technology and advanced engineering techniques so as to give enhanced accuracy and reproducibility. The system has user friendly prompts which guide you throughout the titration process. This titrator eliminates the use of conventional delicate and fragile glass burettes and plunger systems. It uses a highly sensitive motorized dispensing system for precise control of titrant volumes. This titrator analyses the moisture concentration of liquid samples, powder, fine particles and fiber samples that are soluble in alcohol or solvents. The moisture content is displayed in ppm, %age and mg H<sub>2</sub>O.



### Features

- Auto Computation of Moisture in ppm, % & mg H<sub>2</sub>O.
- Storage of Date, Time, Batch No. and Final Results
- 8-Digit Digital Display
- Motorized Dispensing
- External Printer Attachment Facility



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## MICROPROCESSOR PHOTO COLORIMETER-1311

Microprocessor Photo Colorimeter – 1313 is a compact and easy to operate instrument for Photo Colorimeter analysis of any concentration. The output is available on a 3 digit seven segment red LED display in terms of %Transmission (%T), Absorbance (Abs.), and Concentration (Conc.) and KFactor. This is a unique system that combines convenience with accuracy and precision in analysis.

The instrument includes a wide range of filters covering wavelength from 420-680 nm in the form of in-built filters. The filter setting is controlled by a rotating disc. An in-built shutter control is provided to avoid fatigue of photodiode. When the instrument is switched on, Lamp glows and light passes through the solution to the detector and absorbance or %T measurement is taken. Light source is pre-focused tungsten lamp. The instrument conforms to all general & safety standards.



### Features

- %T, Abs, Conc. & KFactor mode
- 1 ml Sample Volume
- Auto Zeroing Facility
- Highly Stable & Accurate
- Range 400 to 700 nm
- Soft Touch Membrane Keys



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## DIGITAL CONDUCTIVITY METER-601 & 611

Digital Conductivity Meters are reliable and accurate test instruments for measurement of Conductivity of aqueous solutions. They measure Conductivity and TDS in five ranges. The Resolution is  $0.1 \mu\text{S}/\text{Cm}$  and  $0.1 \text{ ppm}$  repetitively, in the lowest range. The cell constant is flashed on a digital display & can be adjusted from the front panel. The instruments have the "Check" facility to calibrate the instrument.

These instruments are ideal for monitoring salt contents in water and soluble salts in soils. They are extremely useful instruments for agriculture and soil analysis labs, swimming pools, fertilizer plants, petroleum refineries, textile plants etc.



### Features

- Highly Stable and Accurate
- Auto Temperature Compensation Facility
- $3\frac{1}{2}$  Digit Display
- Available in Laboratory & Field Models



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## DIGITAL PH METER-101, 111 & 112

Digital pH Meters are ideal instruments for determination of pH value of any solution. The results are displayed on a 3½ digit display. These are unique instruments that combine convenience with accuracy and precision in analysis. The temperature compensation facility, both automatic and manual is available. The measurement range is from 0 to 14 pH with a resolution of 0.01 pH.

These are extremely useful instruments for agriculture and soil analysis laboratories, swimming pools, fertilizer plants, chemical industries, pharmaceutical industries, petroleum refineries, textile plants etc.



### Features

- Measures pH & mV
- Highly Stable and Accurate
- Auto Temperature Compensation Facility
- 3½ Digit Display
- Auto Polarity & Decimal Indication
- Battery & Mains Operated Available



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## DIGITAL TDS METER - 651

Digital TDS Meters are reliable and accurate test instruments for measurement of TDS of aqueous solutions. They measure TDS in five ranges. The cell constant is flashed on a digital display & can be adjusted from the front panel. The instruments have the "Check" facility to calibrate the instrument.

These instruments are ideal for monitoring salt contents in water and soluble salts in soils. They are extremely useful instruments for agriculture and soil analysis labs, swimming pools, fertilizer plants, petroleum refineries, textile plants etc.



### Features

- Highly Stable and Accurate
- 3½ Digit Seven Segment LED Display
- Available in Laboratory & Field Models



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## RANGE OF PRODUCTS

### General Laboratory Instruments

- Double Beameter
- UV-VIS Spectrophotometer
- Flame Photometers
- Water & Soil Analysis Kit
- pH Meters
- Conductivity
- TDS Meters
- DO Meters
- Salinity Meters
- Potentiometers
- Turbidity / Nephelo Meters
- Colony Counters
- Balance Cell colorimeters

### Pharmaceutical Instruments

- Karl Fischer Moisture Titrators
- Fluorometers
- Tablet Dissolution Test Apparatus
- Tablet Disintegration Test Apparatus
- Friability Test Apparatus
- Melting Point Apparatus
- Leak Test Apparatus
- Tele Thermometers

### Medical & Clinical Instruments

- Semi Auto Chemistry Analyzer
- Photo colorimeters
- Haemoglobin Meter
- Flame Photometers
- Microscopes

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## **Environmental & Scientific Instruments Co.**

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