Microprocessor UV-VIS Spectrophotometer

1371

Advantages

- Covers 190 to 1000nm
- 4 Position Cuvette Holder
- 16x2 Line LCD Data Display.
- 4 Digit Wavelength Display
- Printer Interface
- RS - 232 Computer Interface

1 Year Warranty

Microprocessor UV/VIS Spectrophotometer is a single beam compact and easy to operate instrument for Spectrophotometric analysis of a solution of any concentration. The output is available on 16x2 line LCD display in terms of % Transmission (%T), Absorbance (Abs), Concentration (Conc) and K Factor. This instrument has 100 sample storage memory, printer output for printing of data with any dot matrix printer. RS-232C Interface for computer can be provided on request. The use of microcontroller has made it extremely versatile and state-of-the art instrument. 10 mm pathlength cuvettes are used to take readings.

The instrument operates at wavelength between 190 to 1000 nm range. Diffraction grating of 1200 lines/mm in the monochromator produces a linear spectrum. An automatic shutter provided to stop the light increases the life of photodiode tremendously. Deuterium lamp (D2) is used in the range 190 to 350 nm and Tungston Halogen lamp (W) covers 350 to 1000nm.

This is extremely useful in Chemistry Labs., Mineral Water Testing, Pharmaceutical Labs., Universities, Hospitals, Research Centres, Biotectnology, Drugs & Agricultural Labs. This is extremely useful instrument for quantitative analysis.

μP UV-VIS spectrophotometer

Technical Data

SPECTRAL	
WAVELENGTH RANGE	190 nm - 1000 nm
SPECTRAL BANDWIDTH	2 nm
ACCURACY	±0.5 nm
REPEATABILITY	±0.3 nm
READ-OUT (WAVELENGTH)	4 digit 7 segment red LED display
PHOTOMETRIC RANGE	% T : 0 to 100 Abs. : 0 to 1.999 Conc. : 0 to 1999 K FACTOR : 0 to 1999
ACCURACY	± 0.005 Abs at 1.0 Abs ± 0.010 Abs at 1.5 Abs
STRAY LIGHT	Less than 0.1% at 320 nm
READABILITY	± 1 count
DATA READOUT	16 x 2 Line LCD back lit display
KEY BOARD	8 Keys, soft touch membrane type
DATA STORAGE	Upto 100 Samples
INTERFACE	Printer interface for any centronics dot matrix printer
SERIAL INTERFACE	RS 232C interface (Optional)
LIGHT SOURCE	(a) Tungsten - Halogen Lamp (b) Deuterium Lamp
DETECTOR	Wide range silicon Photodiode
OPTICS	Complete Mirror optics with High Resolution 1200 grooves/mm grating, Czerny-Turner moun
SAMPLE HOLDER	4 position adjustable sample holder
POWER	230 V ± 10% 50 Hz AC
DIMENSIONS	550 x 405 x 130 mm (LxBxH) Approx.
WEIGHT	25 Kg. (Approx.)

ACCESSORIES

Quartz Cuvettes : Set of 2 (10mm pathlength)

Instruction Manual : 1 No.

Plastic Cuvettes : 4 Nos.

Dust Cover : 1 No.

Product Range

Semi Auto Analyser, Single Beam and double Beam UV/VIS Spectrophotometer, Flame Photometers, Haemoglobin Meter, Digital pH, Meter, Digital Photo Fluorometer, Digital Conductivity Meter, Digital Photo Colorimeter, Turbidity Meter, Auto KF Titrimeter, Digital DO Meter, Digital Conductivity Meter, Digital TDS Meter, Temperature Indicator, Digital Telethermometer, Water & Soil Analysis Kit, Digital Salinity Meter, Digital Colony Counter, Portable pH Meter, Portable Conductivity Meter, Portable TDS Meter, Portable DO Meter, Digital Tablet Disintegration Apparatus, Digital Friability Test Apparatus Tablet Dissolution Test Apparatus, Melting Point Apparatus, Student Microscope, Binocular microscope, Medical Microscope, Co-Axial Microscope.

Kapco Printers : +91-172-2595280, eip/08/12/1371