AN ISO 9001:2008 COMPANY

SYSTRONICS®

Visible Spectrophotometer 168

Micro Controller Based

◆ **Bandwidth 2 nm**

Concentration / Scanning Graph on display

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MANUFACTURERS OF ELECTRONIC INSTRUMENTS AND SCIENTIFIC EQUIPMENTS.

BRANCH ADDRESS :

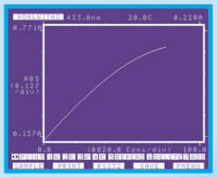
BRANCHES AT : BENGALURU, BHOPAL, BHUBANESHWAR, CHANDIGARH, CHENNAI, GUWAHATI, HYDERABAD, JAIPUR, KOLKATA, LUCKNOW, MUMBAI, NEW DELHI, PATNA & THIRUVANANTHAPURAM.

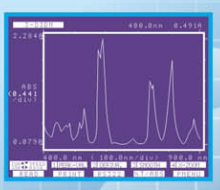
Visible Spectrophotometer 168

Micro Controller Based

SPECIFICATIONS

OPTICS	Single beam Czerny-Turner Monochromator with grating of 1200 line / mm
WAVELENGTH	
Range	: 340 to 1100 nm
Accuracy	: ±1.0 nm
Resolution	: 0.1 nm
Repeatability	: ±0.5 nm
Bandwidth	: 2.0 nm
PHOTOMETRIC	
Range	: - 0.04 to 3.0 Abs
Accuracy	: ±0.005 Abs at 1.0 Abs
Repeatability	: ±0.002 Abs at 1.0 Abs
STRAY LIGHT	Less than 0.1%T at 340 nm
BASELINE FLATNESS	Within ±0.005Abs (excluding noises)
SCAN SPEED	Slow, Medium, Fast
DATA INTERVAL	Depends on wavelength scan range and scan speed, Minimum possible 0.1 nm for slow, 0.2 nm for medium and 0.4 nm for fast scan speeds.
SAMPLE HOLDER	Automatic selection for Four cuvette (10 mm Pathlength)
SOURCE	Tungsten-Halogen lamp,
DETECTOR	Si-Photodiode
ORDER CUT-OFF FILTER	Four glass filters, automatically positioned to eliminate grating spectral order interferences
MEASURING MODES	i) Absorbance ii) %Transmittance iii) Concentration (K factor, Multi standard)
OPERATING MODES	i) Single Wavelength ii) Multi Wavelength iii) Scan iv) Time Scan v) Online measurement facility
AUTOMATIC CALIBRATIONS/ OPTIMISATIONS	i) Wavelength calibration ii) LCD contrast adjustment iii) System check at power ON
DATA PROCESSING	i) Peak Pick / Valley Pick ii) Zoom (Expansion) of Spectra iii) Derivative iv) Smoothening of spectra
DATA PRESENTATION	Display of graphic and tabular data on Graphics LCD (320* 240 pixels); hard copy of graphic and data on printer.
DATABANK	For each operating mode ten users defined method can be storage using memory backup.
DATA STORAGE	For each operating mode five users defined files can be storage using memory backup. For each mode one default file which stores last readings taken
PRINTER PORT	Epson compatible Dot Matrix printer
RS-232 PORT	PC Link Data transfer
ACCESSORIES	Two matched 10 mm pathlength glass cuvettes
OPTIONAL ACCESSORIES	◆ Holders for 50 mm rectangular cuvettes Factory Installed ◆ Epson compatible Dot Matrix printer
Pc Link Software for :	• Windows based interface • Permanent data storage on harddisk • Peak Pick/ Point Pick/ Valley Pick • Expansion of spectra • 1st, 2nd ,3rd and 4th Derivative • Averaging of scans • Subtraction of two scans • Ratio, Corrected ratio, 2 point to Point net Abs • Comparison of concentration
POWER	230V, ±10%, 50Hz
DIMENSION	480 (W) X 410 (D) X 215 (H) mm
WEIGHT	13 Kg. (Approx.)





*Technical Specifications, Appearance & model number are subject to change without prior notice in keeping up with the state of art.

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