

SPECTROFLUOROMETER

AFP - 2620



EPC / PRODUCTS / APPLICATION / SOFTWARE / ACCESSORIES / CONSUMABLES / SERVICES

Analytical Technologies Limited

An ISO 9001 Certified Company

www.analyticalgroup.net

Designed for both routine and research applications the AFP-2620 combines a highly sensitive spectrometer with a range of accessories and application specific software to provide a flexible solution to meet a range of applications. Researchers have the choice of ANALYTICAL's unique cross-technique PC-based Windows software for more demanding experimentation. Routine users will appreciate the simple touch screen LCD display of the IRM (intelligent Remote Module) Which provides an alternative instrument control interface with the ability to display graphics and output reports.

►► **Features**

High quality optical system

The compact optical design of the AFP-2620 employs high quality components designed around a DC powered 150W Xenon lamp which is contained within a sealed housing. The lamp output is monitored and maximum stability is ensured by the use of a reference silicon photodiode which monitors the source output and automatically compensates for any minor variation in lamp intensity. The AFP-2620 provides excellent sensitivity with a S:N specification of 450:1 The spectrometer consists of excitation- and emission holographic monochromators optimized for the UV. Scanning speeds are step variable from 60 nm/min to 4000 nm/min with a slewing speed of 30,000 nm/min. Variable spectral bandwidths of 5, 10, and 20 nm are available on both excitation and emission monochromators. The wavelength range provided by the AFP-2620 is 220 nm to 730 nm which can be further extended from 200 nm to 800 nm (Excitation) 200 to 900 nm (Emission) with the WRE-362 Optional red sensitive PMT.

System versatility and flexibility

The AFP-2620 can be used for a wide variety of fluorescence applications. Specific applications may require that specially designed accessories are placed within the instrument. The AFP-2620 sample compartment employs pre-aligned mountings which enables various optional ANALYTICAL manufactured accessories as well as custom-made accessories to be quickly and easily mounted or demounted without the need for time consuming re-alignment.

High sensitivity

The AFP-2620 is capable of making highly sensitive measurements with limited sample volumes. The signal-to-noise ratio of the instrument determined using the Raman band of water at 350 nm (excitation) with 10 nm ex/em spectral bandwidths is in excess of 450:1 in addition, instrumental parameters and accessories can be further optimized to make measurements with virtually any sample type.

Spectra Manager™ Suite

Spectro Manager™ is a fully-integrated 32-bit PC software package that can be used to control the AFP-2620 Spectra Manager™. It provides a wide range of advanced features and functions that allow precise measurement and detailed data analysis via a user friendly operating environment. Spectra Manager is designed to be used with other ANALYTICAL spectroscopic products including FTIR, UV/VIS, CD spectrometers and Polarimeter. It allows data obtained from a variety of instruments to be viewed, analyzed, displayed and printed together for comparison and publication. The software is fully multi-tasking allowing accurate data acquisition even whilst simultaneously running other programs or when controlling other ANALYTICAL instruments.

iRM (intelligent remote module)

The AFP-2620 is equipped with an iRM (intelligent Remote Module) with an LCD monitor (320x240 pixels) that allows simple and easy control of the instrument. A simple keypad and touch screen allow the user to easily operate any function. A convenient help key is also provided. Additional programs can also be added simply inserting an optional program card into the slot on the iRM. (Standard for only C/N : 6816-j002A model)

GLP/GMP compliance

The AFP-2620 was designed to meet the requirements of GLP/GMP compliance using optional validation tools and software. The AFP-2620 validation program provides the following tests: wavelength accuracy, wavelength repeatability, resolution, stray light, detection limit and photometric stability.

Compact size

The AFP-2620 is housed in a compact and rugged case measuring only 420(W) x 480(D) x 260(H) mm.

►► Specification :

Hardware specifications	
Light source:	Xe lamp with shielded lamp house, 150-watt
Detector:	Silicon photodiode for excitation monochromator Photomultiplier for emission monochromator
Photometric system:	Photometric ratio system using monochromatic light to monitor the intensity output of Xe source
Monochromators:	Holographic grating with 1200 grooves/mm modified Rowland mount Zero order
Wavelength range: (mechanical)	200~1000 nm for with excitation and emission monochromators Zero order
Wavelength range: (operative)	220~730 nm with optional PM tube for emission monochromator 200~800 nm with optional PM tube for excitation monochromator
Wavelength accuracy:	+/- 3 nm (except zero order)
Spectral bandwidth:	5, 10, 20 nm on both excitation and emission monochromators
Wavelength scan speed:	60, 125, 250, 500, 1000, 4000, 8000, nm/min for both excitation and emission monochromators 30,000 nm/min
Slew speed:	0.02, 0.05, 0.1, 0.25, 0.5, 1, 2, 4, 8 sec (Quantitative analysis, Fixed wavelength measurement)
Response:	0.02, 0.05, 0.1, 0.25, 0.5, 1, 2, 4, 8 sec and auto response (time course measurement) Fast, Medium, Slow, Auto (Wavelength scan measurement)
Sensitivity:	Signal to noise ratio 450:1 or higher, raman band of water peak-to-peak using SBW 10 nm on both EX and EM monochromators, 2 second response at 350 nm excitation wavelength.
Gain:	High, Medium, Low (approx. x100, x10, x1)
Sample compartment:	Single cell holder (standard)
Photometric stability:	+/- 1%hr
Output port:	RS-232C interface
Power requirement:	100, 115, 200, 220, 230, 240V, 400VA
Dimensions:	420(W) x 480(D) x 260(H) mm
Net weight:	approx. 34 kg

►► HPLC Servicing, Validation, Trainings and Preventive Maintenance :

- HPLC Servicing : We have team of service engineers who can attend to any make of HPLC promptly @the most affordable cost.
- Trainings :We also take up preventive maintenance to reduce downtime of HPLC's Trainings.
- AMC's/CMC : We offer user training both in-House and at customer sites on PLC principles, operations, troubleshooting.
- Validations : We have protocols for carrying out periodic Validations as per GLP/ GMP/U SFDA norms.
- Instruments : We offer instruments/Renting Services Modules like pumps, detector etc. on Rent.



►► About Analytical Technologies

Analytical Technologies is synonymous for offering technologies for doing analysis and is the Fastest Growing Global Brand having presence in at least 96 countries across the globe. Analytical Technologies Limited is an ISO :9001 Certified Company engaged in Designing, Manufaturing, Marketing & providing Services for the Analytical, Chromatography, Spectroscopy, Bio Technology, Bio Medical, Clinical Diagnostics, Material Science & General Laboratory Instrumentation. Analytical Technologies, India has across the Country operations with at least 4 Regional Offices, 6 Branch Offices & Service Centers. Distributors & Channel partners worldwide.

►► Our Products & Technologies



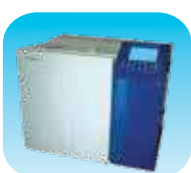
UV/VIS
Spectro 2080+
Double Beam



Infra FTIR



Optima Gas
Chromatograph
3007



Optima Gas
Chromatograph
2979 Plus



Flash
Chromatograph



Atomic Absorption
Spectrophotometer



Liquid Partical
Counter



Optical Emission
Spectrophotometer



DSC/TGA



Semi Auto Bio
Chemistry Analyzer



HEMA 2062
Hematology
Analyzer



Micro Plate
Reader/Washer



URINOVA 2800
Urine Analyzer



Total Organic
Carbon 3800



Fully Automated
CLIA



NOVA-2100
Chemistry Analyzer



PCR/Gradient PCR/
RTPCR



TOC
Analyzer



Laser Particle
Size Analyzer



Ion Chromatograph



Water purification
system

►► Regulatory compliances



►► Corporate Social Responsibility

Analytical Foundation is a Nonprofit Organization (NGO) found for the purpose of:



Analytical Foundation

1. Research & Innovation Scientist's awards / QC Professional Award : Quality life is possible by innovation only and the innovation is possible by research only, hence ANALYTICAL FOUNDATION is committed to identify such personalities for their contributions across various field of Science and Technology and awarding them yearly. To participate for award, send us your details of research / testing / publication at info@analyticalfoundation.org

2. Improving quality of life by offering YOGA Training courses, Work shops / Seminars etc.

3. ANALYTICAL FOUNDATION aims to DETOXYFY human minds, souls and body by means of Yoga, Meditation, Ayurveda, Health Care, Awards, Media, Events, Camps etc.

►► Reach us @



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