

ZEEMAN - DOUBLE BEAM

ATOMIC ABSORPTION SPECTROPHOTOMETER

Analytical Flame / Hydride Vapour and Graphite Furnace System



Zeeman High Frequency Polarization Modulation (ZHFPM) Background Correction

Model No.: SYS-910ZD

Technical Specification:

Technical Specification	
Model No.	SYS-910ZD
Main System:	
Light Source Eight (8) Lamps turret with automatic alignment	
Optics	Zeeman-Double Beam Optics, fully closed optical system
Quasi-double beam Optics	Eliminate drifts and enable direct work with no warm-up needed
Gratings	1800 lines /mm grating, Czerny-turner type optical path design
Background Correction	Zeeman High Frequency Polarization Modulation (ZHFPM) background correction method covers whole wavelength region from 190nm to 900nm
Wavelength Range	190nm ~ 900nm Automatically peak find, a key optical optimization function
Wavelength Accuracy	≤0.1nm
Wavelength Repeatability	±0.02nm
Spectral Bandwidth	0.1nm,0.2nm,0.4nm,1.0nm,2.0nm (5 steps with automatic changeover)
Baseline Stability	≤±0.002A/30 min (Static) ≤±0.005A/30min (Dynamic)
Absorbance Range	0~4A
Flame Analytical System:	•
Detector	High Sensitivity Photo-Multiplier Tube (PMT)
Burner Head	Full titanium combustion head,100mm general combustion head
Atomization Chamber	Polymer explosion-proof spray chamber
Atomization Chamber Nebulizer	Atomizer efficient glass atomizer, can also be customized
Ignition Type	Microcomputer control, automatic ignition through software operating
Gas Control	Automatic gas control system
Detection Limits(Cu)	0.002µg/mL
Precision	RSD≤0.5% , >0.7 abs for 5 mg/L Cu solution
Hydride Generator:	
Measurement Method	Continuous Flow
Application	Can Detect low temperature elements like As, Bi, Hg, Pb, Sb, Se, Sn, Te
Sample Consumption	0 to 7 mL/min, variable
Reagent Consumption	0 to 2.5 mL/min, variable
Atomizer	
Carrier Gas	Heated absorption cell (heated by Air-C ₂ H ₂ flame in standard system)
Power Requirements	Ar pressure: 0.32 MPa, Ar consumption: 70 mL/min
	AC240 V, 50 Hz
Graphite Furnace Analytical S	
Heating Mode	Vertical heating
Temperature Control Method	Vertical optical temperature monitoring graphite tube wall temperature
Temperature Range	Room Temperature (RT) to 3000 ^a
The Program	Automatic temperature control up to 20 order
Temperature Control	The furnace enriched up to 20 times
Characteristics Volume	0.5×10^{-12} g (Cd)
Detection Limit	$0.4 \times 10^{-12} g (Cd)$
Precision	RSD≤3%
The Cooling Water	Can choose cooling water circulation system
Safety	The graphite tube damage, water flow, air pressure and other alarm
	temperature overheating protection
Autosampler:	
Sample Tray	70 sample cups, 6 reagent cup
Sample Volume	1-100µl
The Smallest Increment	0.1µl
The Volume Of Sample	better than 1% (at the time of 10mL-100mL)
Repeatability Volume	
Repeated Sampling Frequency	up to 99 Times
Cleaning Waste Container Size	500mL each
Power Supply	AC220V 50Hz, Lamp Current : Pulsed power supply
Weight/Size	80 Kg / Dimensions: (L)988mm *(W)412mm* (H)440mm
Interface	Computer and USB interface communication
Software	PC communication software to control AAS system, Data processing, Data analysis, Print etc.

SYSTRONICS (INDIA) LIMITED B/116-129, 1st Floor, Supath II Complex,

B/116-129, 1_{st} Floor, Supath II Complex, Nr. JunaWadaj Bus Terminus, Ashram Road, Ahmedabad – 380013.