ATOMIC ABSORPTION SPECTROPHOTOMETER - SYS-813



Features

- Automatic hollow cathode lamp changeover. The high performance HCL can be used directly.
- Auto-changeover and position optimization of integrated flame/graphite furnace atomizer.
- Auto-ignition, automatic spectral bandwidth selection.
- Fully automated wavelength scanning and peaking
- Light-controlled graphite furnace power supplier, adopting FUZZY-PID temperature control technique and dual curve working mode, ensures fast heating, accurate and stable temperature control and good temperature reproducibility. Temperature auto-correction function provided.
- Graphite furnace with pneumatic control and pressure lock ensures constant pressure and reliable contact. (Optional)
- Perfect safety protection measures, alarm and automatic safety protection to fuel gas leakage, air pressure deficiency and abnormal flame extinction; spray chamber made of explosion-proof material, all-titanium burner and explosion-proof stopper for flame analyses; alarm and protection function to argon pressure deficiency, insufficient cooling water supply, over-heating and over-current etc. in graphite furnace analyses.
- Adopting large-scale programmable logic array and Inter IC bus technique and highly reliable adapters for electric design.
- Easy and flexible WINDOWS operating system, with multi-windows processing technology to observe the signal profile, the measured results and the calibration curve at the same time. Various analytical programs, data, signals and graphics can all be stored for later use.

Specifications of SYS-813 AA Spectrometer		
	Wavelength range	190-900n ±0.25nm
	Wavelength accuracy	Two spectral lines of Mn at 279.5nm and 279.8nm can be π
Main Specification	Resolution	separated with the spectral bandwidth of 0.2nm and valley-peak energy ratio less than 30%.
	Baseline stability	\leq 0.004A/30min The D2 lamp background correction capability at 1A is better than
	Background correction	30 times.
Hollow Cathode Lamps	Lamp turret	4-lamp turret auto alignment, fully automated scan and peak-picking. Automatic adjustment and display. Wide pulse current:
	Lamp current adjustment	0~25mA, Narrow pulse current: 0~10mA
Optical System	Lamp power supply mode Monochomator Grating Focal length Blazed Wavelength	Powered by two pulses simultaneously Czerny-Turner design grating monochromator 1800 l/mm 277mm 250nm
Atomizer	Spectral Bandwidth Flame/Graphite furnace	0.1nm, 0.2nm, 0.4nm, 1.2nm automatic change. Flame/Graphite furnace atomizer auto changeover
Detection and Data Processing System	Detector Software	Photomultiplier with high sensitivity and wide spectral range. Ms-Windows 98/Me operating system
	Analytical method	Working Curve Method (1st order and 2nd order fitting), Sensitivity auto-correction, Standard Addition Method.
	Concentration	Auto-calculation of concentration and content
	Repeatable measurement	Maximum 20 times of repeat measurement, automatic calculation of mean value, standard deviation and relative standard deviation
	Multi-task function Condition reading	Sequential measurement of multi-elements in one sample With model function
	Result printing	Measurement data and final analytical report printout, editing with Excel.
	Burner Spray chamber Nebulizer	10cm single slot all-titanium burner All-plastic spray chamber. High efficiency glass nebulizer with metal sleeve.
Flame Analysis	Position adjustment	Adjusting mechanism for vertical, horizontal positions and the rotation angle of the burner.
	Protection for gas system	Fuel gas leak protection, abnormal flame extinction alarm, air- pressure deficiency protection and explosion-proof device. Automatic
Characteristic Concentration and Detection Limit	Flame ignition Normal Air-C2H2 flame	Cu: Characteristic concentration≤0.025mg/L, Detection limit≤0.006mg/L;
Graphite Furnace Analysis	Temperature range	20~3000°C
	Light-controlled temperature range	1500°C -3000°C, temperature auto-correction
	Temperature control accuracy	≤1%
	Heating rate Characteristic mass Precision	2000iæ/s Cd≤0.5 x 10-12g, Cu≤5 x 10-12g, Mo≤1 x 10-11g RSD≤4%
	Safety protection	Protections for over-heating, over-current, and less cooling water and argon pressure monitoring functions
Power Supply	220V, 200W	
Dimensions	1020 (L) x 492 (W) x 537 (H) mm (main unit) 420 (L) x 420 (W) x 460 (H) mm (graphite furnace) (Optional)	
Weight	Unpacked 80kg (main unit), 50kg (graphite furnace)	

Sold & Serviced by :

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