

# Atomic **Emission** Spectrophotometer



**Features:**

- » Reasonable design and perfect performance.
- » Rapid analysis, perfect repeatability and stability.
- » High integrated data collection, control system and high automatic degree.
- » Used for many kinds of matrix analysis: Fe, Co, Ni, Ti, Cu, Al, Pb, Mg, Zn, Sn etc.
- » High repeatability & stability excitation source is adopted. Excitation frequency can change in 150 ~ 600 Hz range.
- » Computer software is user-friendly and easy to operate.
- » Database is in-built. User can transfer data through the internet conveniently and quickly.
- » Shake-protection performance is strong and there is no need to make shake-protection base.
- » Local constant-temperature technique is adopted to ensure the normal operation, minimizing requirement to environmental conditions.
- » Operations and maintenance are easy, convenient and maintenance cost is low.

**Specifications**

Model	LAES-10	
Spark Source	Input power	1.0 KVA
	Charge capacitance	Pre-burn 7 µf, Expose 1.5 µf
	Discharge Inductance	Pre-burn 35 µh; Expose 70µh
	Peak current	Pre-burn 100A; Expose 35A
	Peak voltage	300V
	Ignite circuit	Amplitude of pulse +15 KV
	Auxiliary gap	5mm
	Discharging frequency	300 Hz/150Hz or 400Hz/200Hz
Optical Unit	Spectrum range	175-450 nm
	Optical channels	Up to 36 channels
	Concaved grating	Focus length 750 nm
	Groove density	2400 lines /mm
	Ruled area	30 mm × 50 mm
	Blaze wavelength	300 nm
	Linear dispersion	0.55nm/mm
	Width of entrance slit	20 µm
	Width of exit slit	50 µm, 75 µm
	Constant temperature	30±0.1°C
Readout Unit	Gas supply pressure	0.01~0.02MPa
	Readout mode	Subsection integration
	Repeatability RSD	≤ 0.2%
PMT HV power supplies	Integrate capacitance	0.047 µf
	Voltage	1000V
	Stability	≤ 0.5% (8 hours)
Data Processing Unit	HV adjustment change through computer software	
	Hardware	Computer embedded system, CPU main frequency 300MHz
Physical Data	Display industrial 12.1 inch LCD & Printer 24 pins	
	Software	Windows Application Software
Catalog No.	Mainframe (LxWxH) mm	1500 × 1100 × 1200
	Weight	Approx. 450 kg



**Accessory**

Each Additional channel

**Catalog No.**

34260111

**Analytical range for some major elements:**

Element	Content%	Element	Content%	Element	Content%	Element	Content%
Al	0.001~10.0	Nb	0.005~3.0	Cr	0.001~30.0	Sm	0.0005~0.50
As	0.001~0.30	Nd	0.001~0.50	Cu	0.005~10.0	Sn	0.002~10.0
B	0.0005~0.50	Ni	0.001~30.0	Fe	0.002~10.0	Sr	0.002~0.50
Be	0.002~0.50	P	0.001~2.0	Ga	0.0005~0.50	Ti	0.005~3.0
Bi	0.001~0.50	Pb	0.005~10.0	La	0.001~0.50	V	0.0005~6.0
C	0.0025~4.0	Pr	0.001~0.50	Mg	0.005~10.0	W	0.01~22.0
Cd	0.0005~0.50	S	0.001~0.35	Mn	0.001~20.0	Zn	0.01~10.0
Ce	0.001~0.50	Sb	0.002~0.50	Mo	0.001~10.0	Zr	0.005~3.0
Co	0.002~15.0	Si	0.001~20.0	Ag	0.005~0.1	Ca	0.0005~0.1

**Labnics Equipment**

43040 Christy St., Fremont, CA 94538 USA,

Toll Free : (877) 620 9992

Tel. : (925) 271 4322, Fax : (925) 886 0400

Email : info@labnics.com Website : www.labnics.com

