

AELAB Flame Photometer

Model : AE-FP Series



AELAB Flame Photometer AE-FP Series

Our Flame Photometer is used for analyzing & measuring the content & concentration of elements " K, Na, Li, Ca, Ba ". It can be widely applied to agriculture (soil, fertilizer, and tobacco), industry (cement, glass, ceramics, mineral or ore powder, fireproof material), food (wine, water), laboratory, clinical experiments and pathology research (serum, urine, and plasma), etc.

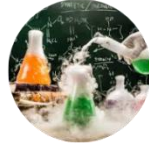
Application fields:



Beverage



Environmental



Chemical



Cement Industries



Food



Pharmaceutical

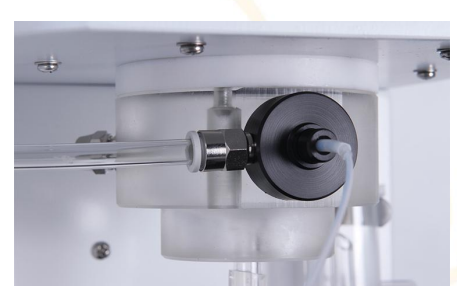
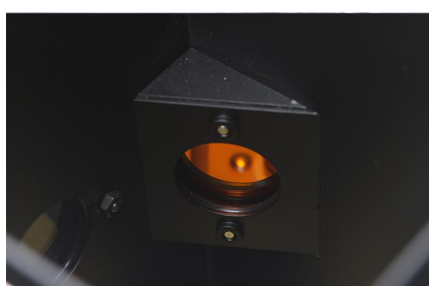
Features:

- ◆ With K, Na, Li, Ca, Ba five filters, which can detect three kinds of elements.
- ◆ LCD Screen display, touch panel with numeric keypad.
- ◆ With auto correlation coefficient calculating function.
- ◆ With ore-select function for flame size.
- ◆ A flame-out protection device.
- ◆ with single point calibration function.
- ◆ Calibration curve can be saved.
- ◆ With RS232 interface, can connect with external printer.
- ◆ with a mist separator.
- ◆ Easy adjustable Relief valve, direct view of pressure gauge.
- ◆ LPG Burning Gas



Technical Specifications:

Measurement Range	K: 0-100ppm, Na: 0-160ppm, Li: 0-100ppm, Ca: 0-1000ppm, Ba: 0-3000ppm
Display	LCD Display, display show the concentration value. Display range: 0.000~999.9
Elements Display Channels	Max. 3 channels
Display Range (ug/ml)	Potassium:0-100, sodium: 0-160, lithium: 0-100, calcium: 0-1000, barium: 0-3000
Response Time	<8 seconds
Minimum Suction Volume	< 6mL/min
Repeatability	Repeat 7 consecutive independent measurements on the same standard solution $\leq 3\%$
Stability	The biggest change in the relative volume in 15s: $\leq 3\%$
Linear Error	K:0.2ppm, Na:0.5ppm, Li:0.1ppm, Ca:2ppm, Ba:8ppm.
Min. Detection Limit	K:0.1ppm, Na:0.1ppm, Li:0.1ppm, Ca:2ppm, Ba:8ppm.
Curve Calibration	Straight-line method; Polygon method; Quadratic fit.
Linearity	Better than the best results of the intermediate value of 2% (single-point CAL)
Standard Accessories	Air-compress & Micro-printer for all models
Optional Accessories	PC Software
Packing Size	74x40x55 cm (carton box)
Gross Weight	27 kg (carton box)



Model Selection:

2 Elements	
Model	Elements
AE-FP8201	K, NA
AE-FP8202	K, LI
AE-FP8203	K, BA
AE-FP8204	K, CA
AE-FP8205	NA,LI
AE-FP8206	NA,CA
AE-FP8207	NA,BA
AE-FP8208	LI,CA
AE-FP8209	LI,BA
AE-FP8210	CA,BA

3 Elements	
Model	Elements
AE-FP8301	K, NA,LI
AE-FP8302	K, NA, CA
AE-FP8303	K, NA, BA
AE-FP8204	NA,LI,CA
AE-FP8205	NA,LI,BA
AE-FP8206	LI, CA, BA.

4 Elements	
Model	Elements
AE-FP8401	K, NA,LI,CA
AE-FP8402	K, NA, LI, BA
AE-FP8403	NA,LI,CA,BA

5 Elements	
Model	Elements
AE-FP8501	K, NA,LI, CA,BA

Economic Models:

Model	AE-FP8201-A	AE-FP8201-B
Display	LCD display	
Range	K: 0-100ppm, Na: 0-160ppm	
Stability	The biggest change in the relative volume in 15s: ≤3%	
Linear Error	K: 0.2ppm Na: 0.5ppm	
Min. Detection limit	K: 0.1ppm Na: 0.1ppm	
Curve calibration	Straight-line method, Polygon	Straight-line method, Polygon method;
Linearity	Better than the best results of the intermediate value of 2% (single-point CAL)	
Standard Accessory	Air Compressor	
Optional Accessory	Micro-printer	

Standard Accessories:

Main device 1unit

1. Operating manual 1pc
2. Air compressor 1unit
3. PU pipe for air road 2.5m
4. Silicone tube (spare) 0.6m
5. Funnel parts 1pc
6. Glass cylinder 1pc
7. Capillary 1pc
8. Fuse 2pcs
9. Power cable 1pc
10. Micro-printer 1set
(AE-FP8201-A/B not include)



Micro-printer + Operating manual



Air Compressor



Spare part kit+ Pipe for air road
+Glass cylinder+Power cable

