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EASY MENU DRIVEN OPERATION

Display

Chem Biotech
Flame Photometer CB 128
Ready

Main Menu

0 View Directory
1 Delete Setup
2 Delete All Setup
3 Edit Date/Time

Main Menu

4 Set Flame
5 Set Avg. Time
6 Clr Backup Data
7 Help For FPM CB128

Conc. Measurement

XX.SETUP
1 Low Concentration
2 High Concentration

Set Flame

Adjust Flame
Flame Output in MV
[]



Flame Photometer : CB 128



210, Paras Chamber, Near Laxmi Narayan Theatre,
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FLAME PHOTOMETER CB 128 is a micro-controller based instrument designed to provide automation in operation, measurements and end-result presentation. It does the estimation of Sodium (Na), Potassium (K), Lithium (Li), and Calcium (Ca) in single aspiration of a sample. For user's convenience, the instrument offers two measuring modes: (i) Low Concentration and (ii) High Concentration.

There is facility of curve fitting correction for non-linear emission characteristics of element, at higher concentration, store (save) setup for frequently used, measurement and the same can be recalled whenever required with a press of a button. Also restandardization using single standard to minimize the effect of any unforeseen drift without going for the full recalibration. 4 Line 20-character LCD readout provides easy user interface & presentation of results.

SILENT FEATURES

- » Micro-controller based automation for ease of operation
- » Determination up to four elements with single aspiration (Na, K, Li & Ca)
- » Curve Fitting Correction for non-linear emission characteristics of element at higher concentration, maximum five-point calibration
- » Storing facility for setups and results (date wise & batch wise, maximum 700 results), the same can be recalled whenever need arise
- » 4 Line 20-character LCD readout
- » Facility for re-standardization with single standard
- » Built-in real time clock for date and time of analysis
- » Printout facility for individual sample, batch sample, total day's samples or entire results in the memory (700 max.)
- » Air compressor with built-in air regulator and air filter
- » PC Link software for transferring data to computer & manipulation of data in computer using RS-232

SPECIFICATIONS

ELEMENTS	LOW CONE. MODE (Max.) Without Dilution	HIGH CONE. MODE (Max.) Without Dilution	Full Scale Sensitivity			
			Na : 2 ppm	K: 1ppm	Li: 1ppm	Ca: 30 ppm
			Resolution			
			0.02 ppm	0.01ppm	0.01ppm	0.03 ppm
Na	10 ppm	100 ppm				
K	10 ppm	100 ppm				
Li	2 ppm	50 ppm				
Ca	100 ppm	300 ppm				

Suitable dilutions should be made for solutions of higher concentrations than given in the above table. Inbuilt curve fitting software is provided for the high concentration mode.

Interference Filters :	Na & K Standards, Ca & Li Optional
Reproducibility :	Low Cone.: $\pm 1\%$ Ls., High Cone.: $\pm 2\%$ f.s.
Minimum Sample :	3 ml / element (Approx)
Averaging Time :	2 to 15 seconds
Operating Air Pressure:	0.45 kg / cm ²
Air Compressor :	With built-in air regulator and air filter to deliver stable and moisture / oil free air supply with Pressure of 1 kg / cm ²
Fuel Gas:	LPG supplied by end user
Printer Port:	Epson compatible 80 Column D.M. Printer
RS-232 Port:	PC Link data transfer
Memory:	Storage of 700 results
Power:	230V $\pm 10\%$, 50 Hz
Dimensions:	415 (W) X 255 (D) X 305 (H) mm (Main unit) 255 (W) X 210 (D) X 205 (H) mm (Compressor)
Weight:	Main unit 6.5 kg + Compressor 6 kg
Accessories:	Gas Lighter, Air & Gas Tube
Optional Accessories:	Li & Ca Filter Inbuilt automatic flame Ignition Epson compatible 80 column D.M. Printer PC Link software

*Technical Specifications, Appearance & model number are subject to change without prior notice in keeping up with the state of art.