



FLAME PHOTOMETER 128

M I C R O C O N T R O L L E R B A S E D



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MANUFACTURERS OF ELECTRONIC INSTRUMENTS AND SCIENTIFIC EQUIPMENTS.

BRANCH ADDRESS :

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SYSTRONICS FLAME PHOTOMETER 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 re-standardization 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.

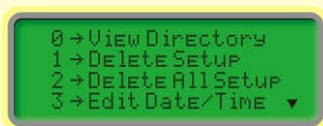
SALIENT FEATURES

- 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

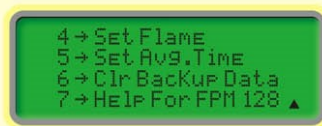
EASY MENU DRIVEN OPERATION



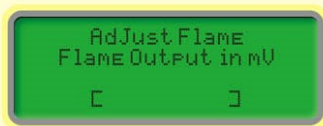
Display



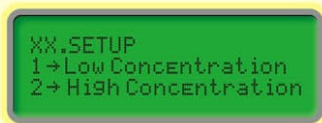
Main Menu



Main Menu



Set Flame



Conc. Measurement



SYSTEM PACKAGE
Main Unit 128 & Compressor 126

SPECIFICATIONS

ELEMENTS	LOW CONC. MODE (Max.) Without Dilution	HIGH CONC. MODE (Max.) Without Dilution
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

FULL SCALE SENSITIVITY			
Na : 2 ppm	K : 1 ppm	Li : 1 ppm	Ca : 30 ppm
RESOLUTION			
0.02 ppm	0.01 ppm	0.01 ppm	0.03 ppm

- Interference Filters : Na & K Standards, Ca & Li Optional
- Reproducibility : Low Conc. : $\pm 1\%$ f.s., High Conc. : $\pm 2\%$ f.s.
- Minimum Sample : 3 ml / element (Approx)
- Averaging Time : 2 to 15 seconds
- Operating Air Pressure: 0.45 kg / cm²
- Air Compressor : With built-in air regulator and air filter to deliver stable and moisture / oil free air supply with Pressure of 1kg / cm²
- 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.