



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 :

BRANCHES AT : BENGALURU, BHOPAL, BHUBANESHWAR,
CHANDIGARH, CHENNAI, GUWAHATI, HYDERABAD, JAIPUR, KOLKATA,
LUCKNOW, MUMBAI, NEW DELHI, PATNA & THIRUVANANTHAPURAM.

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.

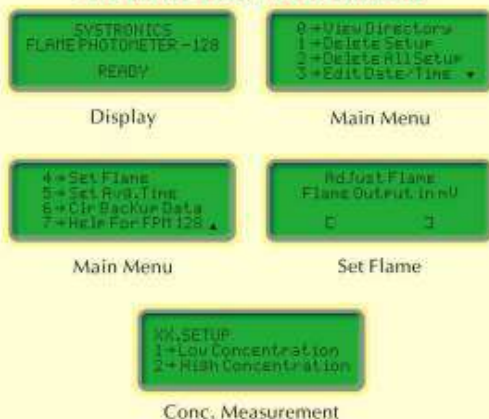
There is facility of curve fitting correction for non-linear emission characteristics of element, at higher concentration, store (save) setup for frequently used, measurement and the same can be recalled whenever required with a press of a button. Also re-standardization using single standard to minimize 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. A Centronics printer port provides print out of results on EPSON compatible Dot Matrix Printer, Printer is an optional.

SALIENT FEATURES

- Micro-controller based automation for ease of operation.
- Determination up to four elements with single aspiration (Na, K, Li and 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.
- Multi standard graph in dot matrix print out.
- Built-in real time clock for date and time of analysis.
- Centronics printer port provided for print out of results (simultaneous with analysis or recalled) on EPSON compatible Dot Matrix Printer.
- 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 (SYSTRONICS-126).
- PC Link software for transferring data to computer & manipulation of data in computer using RS-232.

EASY MENU DRIVEN OPERATION



SPECIFICATIONS

System Package : Main unit-128 & Compressor unit-126

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.

A 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

- INTERFERENCE FILTERS : Na and K
- REPRODUCIBILITY : Low Conc : $\pm 1\%$ f.s., High Conc : $\pm 2\%$ f.s.
- MINIMUM SAMPLE : 3 ml / element (Approx)
- AVERAGING : 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
- FUEL GAS : LPG supplied by end user
- PRINTER PORT : Epson compatible 80 Column Dot Matrix
- RS 232 PORT : PC Link data transfer
- POWER : 230V $\pm 10\%$, 50 Hz
- DIMENSIONS MAIN UNITE : 415 (W) X 255 (D) X 305 (H) mm
- WEIGHT MAIN UNITE : 6.5 kg (Approx)
- ACCESSORIES : Gas Lighter, Air & Gas Tube
- OPTIONAL ACCESSORIES : Li & Ca Filter
Epson compatible 80 column D.M. Printer
standard software (RS 232) for Window based PC link



Compressor with air filter and regulator.

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