



FLAME PHOTOMETER 129



MICRO CONTROLLER BASED AUTOMATION

SYSTRONICS FLAMEPHOTOMETER 129 is a micro controller based unit designed for medical applications. The micro controller provides automation in operation, measurements, and end-result presentation. The unit can do the estimation of Sodium (Na), Potassium (K), Calcium (Ca) and Lithium (Li) in single aspiration of a sample.

For user's convenience, the unit offers three measuring modes : 1. Serum 2. Urine 3. Bio-fluid (General). The last mode is helpful for analysing Biological samples other than Serum and Urine.

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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.

SALIENT FEATURES

- Specifically designed for Medical Applications
- Upto four elements measured with single aspiration
- Automatic Filter selection (Narrow Band interference)
- Curve fittings for Nonlinear Range (Up to 5 Standards)
- Restandardisation avoids Full Recalibration
- Record kept of Date and Time of Analysis
- Measurement Results can be recalled later on Display and Printout (700 Max.)
- Measurement Results can be printed (Individual, Full Batch, of the Day, All in Memory)
- 4-Line, 20-Character Alphanumeric LCD Readout
- Centronics Printer Port for Epson Compatible Dot Matrix
- RS - 232 Interface
- Compressor with built-in Air Filter and Air Regulator

TECHNICAL SPECIFICATIONS

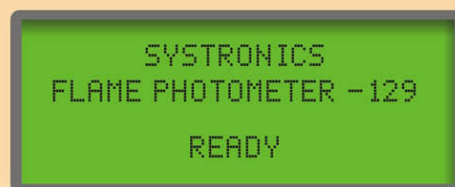
RANGE OF OPERATION

ELEMENT	SERUM	URINE	BIO-FLUIDS
Na	0 - 200 meq / ℓ 1 : 100 dilution	0 - 250 meq / ℓ 1 : 100 dilution	All the four elements upto 250 meq / ℓ with 1 : 200 dilution
K	0 - 10 meq / ℓ 1 : 100 dilution	0- 100 meq / ℓ 1 : 1000 dilution	
Li	0 - 2 meq / ℓ 1 : 10 dilution	-----	
Ca	-----	0 - 10 meq / ℓ 1 : 2 dilution	

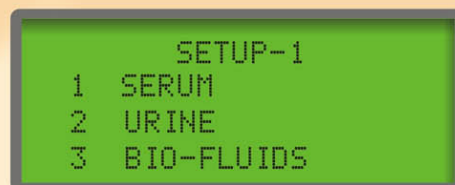
- (i) Inbuilt curve fitting software is provided for Serum, Urine and Bio-Fluids
 (ii) Curve fit accuracy : $\pm 2\%$ f.s.
 (iii) Suitable dilution must be made for concentrations higher than given in the above table

- Filters : Narrow band interference filters Na and K Li and Ca (optional)
- Reproducibility : $\pm 2\%$ f.s.
- Averaging Time : 2 to 15 seconds selectable
- Minimum Sample: Approx 3 ml per element (at Avg. time of 4 sec.)
- Detector : Si-Photodiode
- Aspiration Time : (5 Sec. + Avg. Time) per element + 4 Sec.
- 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 1 kg / 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 : 230 VAC $\pm 10\%$, 50Hz
- Dimension : 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 + 6 kg Compressor
- Optional : Li & Ca Filter
Inbuilt automatic flame Ignition
Epson compatible 80 column D.M. Printer
PC Link software

EASY MENU DRIVEN OPERATION



Main Menu



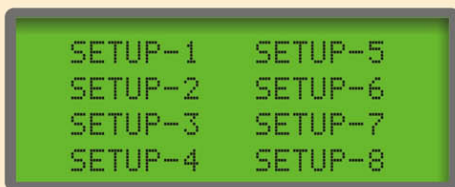
Specifically designed for medical use.



Operating Menu



Step-by-step guidance for operation.



Memories of different setups



Operating steps.



SYSTEM PACKAGE
Main Unit 129 & Compressor 126