



FLAME PHOTOMETER - 130

Electrolyte Analysis Made Easy

Na K Li Ca



SYSTRONICS (INDIA) LIMITED (SYSTRONICS DIVISION)

Works : 89-92, Industrial Area, Naroda, Ahmedabad - 382 330. Gujarat, INDIA.
Phones : (079) 22813017 / 22813117, Fax : (079) 22821592,

Regd. Office : B/116-129, Supath-II Complex,
Near Juna Wadaj Bus Terminus, Ashram Road, Ahmedabad-380 013.
Ph. : 079-27557072, 27556077, Fax : 079-27552902

Email : sales@systronicsindia.com • mktg@systronicsindia.com
Website : www.systronicsindia.com

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FLAME PHOTOMETER - 130

SYSTRONICS FLAME PHOTOMETER 130

Enables speedy and accurate estimation of minute quantities of Sodium (Na), Potassium (K) Calcium (Ca) and lithium (Li). Based on a very simple process, this instrument eliminates the difficult and laborious process involved in classical chemical methods. Analytical laboratories in the following fields would find it a great use :

• Agriculture • Fertilizer • Food • Water Analysis • Cement • Geology • Ceramics • Metallurgy • Plastics • Oil refining

PRINCIPLE

The solution under analysis is sprayed as a fine mist into a non-luminous flame which becomes coloured according to the characteristic emission of the metal. Wavelengths, corresponding to the element being analysed are selected by a narrow band optical filter and are allowed to fall on a photodetector, whose output is a measure of the concentration of the element. The output of the photodetector is connected to Digital Display to provide the read-out.

SYSTEM

The total system consists of Main unit and Compressor unit. The main unit of the flame photometer, consists of an atomizer, mixing chamber, burner, optical lens, filters, photodetector and digital display.

Compressor unit consists of control valve, pressure indicator & Air filter to Provide Moisture free & Oil free Air

SPECIFICATIONS

System Package : Main unit-130 & Compressor unit-126

Sensitivity (FS)

• Sodium (Na) : 2 ppm

• Potassium (K) : 1 ppm

• Lithium (Li) : 7 ppm

• Calcium (Ca) : 30 ppm

Accuracy : $\pm 2\%$ of FSD

Display : 2 ½ Digit LED

Minimum

Sample Volume : 3.5 ml

Aspiration Time : 30 Sec. (Approx)

Air Pressure : 0.3 to 0.6 Kg/cm²

Fuel Gas : LPG supplied by end user

Power : 230V, $\pm 10\%$, 50Hz

Dimension Main Unit : 275(W) X 235(D) X 270(H) mm

Weight Main Unit : 4.5 Kg (Approx)

Accessories : Gas and Air Tube

Optional Accessories : Li and Ca Filters



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