

**Product Name :**  
Microprocessor Flame Photometer

**Product Code :**  
ELABANALYTICAL0002



## Description :

Microprocessor Flame Photometer

## Technical Specification :

Useful for Medical & Laboratory Use  
Highly Accurate Using Micro controller  
Direct Results in ppm and meq  
3-Point Calibration Using Curve Fitting Software

Microprocessor Flame Photometer is an ideal instrument for the determination of sodium, Potassium, Calcium and Lithium.

It uses the latest micro controller technology and advanced engineering techniques so as to give enhanced and reproducibility.

The System has 3-Point calibration facility using curve fitting software.

It has soft touch membrane key for ease of operations.

The sample solution is aspirated through an automiser.

Sample, Air and the fuel are mixed in the mixing chamber which is then sprayed as a very fine mist into the flame.

The color of the flame is changed depending upon the concentration of elements present.

Radiations from the flame passes through the sensing system and specific narrow band interference filter which permits only the characteristic radiation to pass to the photo-detector.

The output of the photo-detector is then processed by the micro controller and the final results are displayed on the digital display.

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Range: Na: 0.1 - 100K: 0.1 - 100K: 15 - 100Li: 0.5 - 100

Sensitivity: 0.1 ppm

Accuracy: + 1% upto 40 ppm, + 2% above 40 ppm

Readout: 5 Digit 7-Segment Bright Red LED Display

Flame System: LPG & dry oil free air

Detector: Silicon Photodiode

Calibration: 3-Point Calibration

Power: 230 V + 10% AC, 50 Hz

Air Supply: By oil free mini compressor unit with pressure regulator

Combustion Gas: LPG controlled by precision regulator

Automiser: Axial flow type

Burner: Stainless steel

#### COMPRESSOR UNIT

Air Supply: By oil free mini compressor unit with pressure regulator

Combustion Gas: LPG controlled by precision regulator

Power: 230 V + 10% AC, 50 Hz

# LAB ENGINEERING

## Elab Engineering Equipments Manufacturers