

**Product Name :**  
Digital Flame Photometer

**Product Code :**  
ELABANALYTICAL0001



### Description :

Digital Flame Photometer

### Technical Specification :

Simple & Easy to Operate  
Narrow Band Interference Filters  
Accurate Na, K, Ca, & Li Determination  
Dual Channel For Simultaneous Observation of Na & K with Single Aspiration  
Mixing Chamber Designed For Stable Flame  
Concentric Non-Corrosive Nebulizer  
Auto Ignition

Digital Flame Photometer is a simple & easy to operate instrument for determination of Sodium, Potassium, Calcium & Lithium.

It is an ideal instrument for soil testing labs.

Digital Clinical Flame Photometer dual channel flame photometer used for simultaneous observation of Sodium, Potassium in blood serum (plasma), Urine & other type of biological fluids.

The instruments are supplied in two units viz.

Main Unit and Compressor Unit.

The Main Unit comprises of digital displays, detector, filters and nebulizer.

The compressor unit supplies the compressed air to the main unit

Air at a given pressure is passed into the atomiser.

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The suction produced by it, draws the sample solution into the nebulizer and is sprayed as fine mist into the flame.

The light emitted by the element at the characteristic wavelength is isolated by the narrow band interference filters, which then falls on to the silicon photodiode. After signal conditioning of the photodiode output, it is sent to digital converter and the results are displayed directly in ppm/meq units.

The narrow band interference filters are mounted on a rotating disc fitted within the Main Unit.

Appropriate filter can be selected by rotating this disc with the thumb.

The oil free compressor with regulator maintains a stable airflow.

Range: Na: 0 - 100 ppm K : 0 - 100 ppm Ca: 15 - 100 ppm (Optional) Li: 10 - 100 ppm (Optional)

Serum: Na: 0 - 200 meq/l K : 0 - 10 meq/l-Li: 0 - 2 meq/l (Optional)

Urine: Na: 0 - 200 meq/l K : 0 - 100 meq/l (Optional) Ca: 0 - 10 meq/l-

Sensitivity: Na: 5 ppm K : 5 ppm Ca: 10 ppm (Optional) Li: 10 ppm (Optional)

Accuracy: + 2% upto 40 ppm, + 5% above 40 ppm + 2% upto 100 meq + 5% above 100 meq

Measurement System: One element at a time

Readout: 2½ Digit 7-Segment LED

Ignition System: In-built electronic Ignition by press of switch

Repeatability: + 2 Counts

Detector: Silicon Photodiode

Filters: Narrow band interference glass filters

Nebulizer: Black bakelite, axial flow type

Flame System: LPG & dry oil free air

Warm-Up Time: 10 minutes

Power: 230 V + 10% AC, 50 Hz

#### 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

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