

**Product Name :**  
Digital Flame Photometer**Product Code :**  
ELAB-FLM0002**Description :**

Digital Flame Photometer

**Technical Specification :**

Digital Flame Photometer Features:-

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 is a 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.

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.

Specifications:-

Serum Urine Range Na: 0

100 ppm K : 0 - 100 ppm Ca: 15

100 ppm (Optional) Li: 10

100 ppm (Optional) Na: 0

200 meq/l K : 0

10 meq/l

Li: 0

2 meq/l (Optional) 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 Two elements at a Time Readout 2½ Digit 7-Segment LED Dual 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 Dimensions 375 x 245 x 220 mm (L x B x H) (Approx.) Weight 7.5 Kg (Approx.) 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 Dimensions 290 x 255 x 210 mm (L x B x H) (Approx.) Weight 8 Kg (Approx.)

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