

Product Name :
Digital Flame Photometer

Product Code :
ANL-FLM-0002



Description :

Digital Flame Photometer

Technical Specification :

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:-

Screen	
Range 200 ppm/l	
K : 0 - 100 ppm/l (Optional)	
Ca: 0 - 10 meq/l Ca: 15 - 100 ppm (Optional)	
Li: 0 - 200 ppm (Optional)	
Sensitivity 5 ppm	
K : 5 ppm	

Ca: 10 ppm (Optional)	
Li: 10 ppm (Optional)	
Accuracy: $\pm 2\%$ up to 400 ppm $\pm 5\%$ above 400 ppm	
Measurements at a Time System	
2-Digit 7-Segment LED	
Ignition System	Ignition System Ignition by press of switch
Reliability	
Silicon Photodiode	

Filter	Narrow band interference glass filters
Blow Back	Black Nickelite, axial flow type
EPG & System	Free air
Warm Up Time	
Power	200 W + 10% AC, 50 Hz
Dimensions	275 x 245 x 220 mm (L x B x H) (Approx.)
Weight	7.5 kg (Approx.)

Compressor Unit

Air Supply	mini compressor unit with pressure regulator
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