Product name:	Product code:
Digital Flame Photometer	ANL-FLM-0002



Description

Digital Flame Photometer

Technical specification

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 backelite, 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.)	

Features:-

Simple & Easy to Operate

NAUGRA®
Civil Laboratory Equipment Manufacturers and Suppliers India Civil Lab Exportrs India
Email us at: export@civilmechanicalindia.com

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.