

FP-3391

Digital Clinical Flame Photometer



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Analytical Technologies Limited

An ISO 9001 Certified Company

www.analyticalgroup.net

Digital Clinical Flame Photometer Model FP- 3391 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.

►► Feature

- 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 (Model 391)
- Mixing Chamber Designed For Stable Flame
- Concentric Non-Corrosive Nebulizer
- Auto Ignition

►► Specifications

MODEL	FP-3391	
Range	Serum	Urine
	Na: 0 – 200 meq/l	Na: 0 – 200 meq/l
	K : 0 – 10 meq/l	K : 0 – 100 meq/l (Optional)
	–	Ca: 0 – 10 meq/l
	Li: 0 – 2 meq/l (Optional)	–
Sensitivity	–	
Accuracy	+ 2% upto 100 meq + 5% above 100 meq	
Measurement System	Two elements at a Time	
Readout	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.)

Regulatory compliances



Corporate Social Responsibility

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Analytical Foundation

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2. Improving quality of life by offering YOGA Training courses, Work shops/Seminars etc.

3. ANALYTICAL FOUNDATION aims to DETOXYFY human minds,souls and body by means of yoga, Meditation, Ayurveda, Health Care, Awards, Media, Events, Camps etc.

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