

Microprocessor Flame Photometer

ZI 14007



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Microprocessor Flame Photometer is an ideal instrument for the determination of Sodium, Potassium, Calcium and Lithium. It uses the latest microcontroller technology and advanced engineering techniques so as to give enhanced accuracy and reproducibility. The system has 3 calibration facility using curve fitting software. It has soft touch membrane keys for ease of operation. The solution is aspirated through an atomiser. Air, sample and the fuel are mixed in the mixing chamber which is then sprayed as a very fine mist into the flame. The color of the flame is changed depending upon the concentration of elements present. Radiations from the flame passes through the sensing system and specific narrow band interference filter which permits only the characteristic radiation to pass the photo-detector. The output of the photo-detector is then processed by the microcontroller and the final results displayed on the digital display.

FEATURES :

Extremely useful for medical and laboratory use
High Accuracy using microcontroller technology
Direct results in ppm and meq

Compression unit:

Air Supply : By oil free mini compressor unit with pressure regulator

Combustion Gas LPG : Controlled by precision regulator

Power : 230V \pm 10%AC, 50 Hz

Dimensions (LxBxH) : 290 x 255 x 210 mm (approx.)

Weight : 8kg. (approx.)

SPECIFICATIONS

Range	(ppm)	Serum (meq/l)	Urine (meq/l)
	Na:0.1-100	Na.: 0-200, 1:100 delution	0-250, 1:100 delution
	K:0.1-100	K.: 0-10, 1:100 delution	0-100, 1:100 delution
	Ca:15-100	-	-
	Li:0.5-100	Li.: 0-2,1:5 delution	0-10, 1:2delution
Sensitivity	0.1ppm		
Accuracy	± 1% upto 40ppm, ± 2% above 40ppm		
Readout	5 digit seven segment bright red LED display		
Flame System	LPG & Dry oil free Air		
Detector	Photodiode		
Calibration	3 point calibration		
Power	230V ± 10% AC, 50Hz		
Weight	Main Unit : 7.5 kg, Compressor : 8kg (approx.)		
Dimensions (LxBxH)	(L x B x H) (365 x 245 x 220) mm approx.		
Air Supply	By oil free mini compressor unit with pressure regulator		
Combustion Gas	LPG		
Automiser	Axial flow type		
Burner	stainless steel		

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