Microprocessor Flat Photometer

1381

Advantages

- Extremely Useful For Medical And Laboratory Use
- Highly Accurate Using Microcontroller Technology
- 3 Point Calibration Using Curve Fitting Software
- Direct Results In ppm and meq

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MICROPROCESSOR FLAME PHOTOMETER, MODEL 1381 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 point calibration facility using curve fitting software. It has soft

touch membrane keys for ease of operation.

The solution is aspirated through an atomizer. 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 to the photo-detector. The output of the photo-detector is then processed by the microcontroller and the final results are displayed on the digital display.



Flame Photometer

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

COMPRESSOR UNIT

Combustion Gas LPG: Controlled by

precision regulator

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

Dimensions (LxBxH): 290 x 255 x 210

mm (Approx.)

Weight: 8 Kg. (Approx.)

Technical Data		
	ppm	Meq/I Serum Urine
range	Na: 0.1 to 100 K: 0.1 to 100 Ca: 15 to 100 Li: 0.5 to 100	Na: 0-200, 1:100 dilution 0-250, 1:100 dilution K: 0-10, 1:100 dilution 0-100, 1:100 dilution Ca: Li: 0-2, 1:5 dilution 0-10, 1:2 dilution
SENSITIVITY	0.1 ppm	
ACCURACY	±1% upto 40 ppm ±2% above 40 ppm	
READOUT	5 digit seven segment bright red LED display	
FLAME SYSTEM	LPG & dry oil free air	
DETECTOR	Photodiode	
CALIBRATION	3 point calibration	
POWER	230 V ±10% AC, 50 Hz	
WEIGHT	Main Unit: 7.5 Kg. (Approx.) Compressor: 8 Kg. (Approx.)	
DIMENSIONS (LxBxH)	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	
Specifications	are subject to ch	ange due to continuous improvements

Product Range

Double Beam UV/VIS Spectrophotometer, Single Beam UV/VIS Spectrophotometer, Flame Photometer, Haemoglobin Meter, Photo Colorimeter, pH Meter, Conductivity Meter, TDS Meter, DO Meter, Salinity Meter, Turbidity Meter, Nephelometer, Colony Counter, Karl Fischer Moisture Titrator, Fluorometer, Dissolution Test Apparatus, Disintegration Test Apparatus, Friability Apparatus, Melting Point Apparatus, Tap/Bulk Density Apparatus, Hardness Tester, Leak Test Apparatus, Flocculator/Jar Test Apparatus, Telethermometer, Temperature Indicator, Water & Soil Analysis Kit, Portable pH Meter, Portable Conductivity Meter, Portable TDS Meter, Portable DO Meter.

Other Flamephotometers available: Microprocessor Flame Photometer Model 381,391, 1381 & 1382



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