

# Microprocessor Flame Photometer

1381



1 Year  
Warranty

## 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

**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 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 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

## Technical Data

	ppm	Serum Meq/l	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 delution K : 0-10, 1:100 delution Ca : - Li : 0-2, 1:5 delution	0-250, 1:100 delution 0-100, 1:100 delution - 0-10, 1:2 delution
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 change due to continuous improvements

## Product Range

Semi Auto Analyser, Microprocessor UV/VIS Spectrophotometer, Microprocessor pH Meter, Microprocessor Conductivity Meter, Microprocessor Photo Colorimeter, Turbidity Meter, Microprocessor KF Titrimeter, Microprocessor DO Meter, Microprocessor TDS Meter, Temperature Indicator, Microprocessor Water & Soil Analysis Kit, Microprocessor Salinity Meter, Digital Colony Counter, Portable pH Meter, Portable Conductivity Meter, Portable TDS Meter, Portable DO Meter, Digital Tablet Disintegration Apparatus, Digital Friability Test Apparatus.

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