

**Product Name :**  
Microprocessor Flame Photometer

**Product Code :**  
NLAB-LABORATORYEM20001



**Description :**

Microprocessor Flame Photometer

**Technical Specification :**

Microprocessor Based with Printer Interface

Auto Gas Cutoff

Auto Flame Failure Detection

Four Measurements in Single Aspiration

Setup Storage Facility

Sample Data Storage Facility

Curve Calibration Programmability Using Maximum of 5 Standards

Multiple Calibration Curve Saving Facility

Data Processing Through Curve Fitting Techniques, Least Square, Quadratic

Online Help Key

Direct Results in ppm and meq

Useful for Medical & Soil Testing

Microprocessor Flame Photometer comes with flame failure detection and auto gas cutoff facility.

In case of power failure, the gas cuts off automatically.

In case the flame goes off accidentally during work, the flame failure alarm sounds after few seconds

Microprocessor Flame Photometers are used for the determination of sodium, potassium, calcium and lithium.

They use the latest microcontroller technology and advanced engineering techniques so as to give enhanced and reproducibility.

They have soft touch membrane key for ease of operations.

The sample solution is aspirated through an atomiser.

Sample, Air 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 pass 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 20 x 4 line alphanumeric lcd with backlit.

In both models 5-Point calibration facility and non-linearity correction is provided through an automatic curve fitting software.

Facility has been provided for re-standardization with a single standard, thereby, eliminating the need of the multiple standards once a calibration has been performed.

Specifications:-

<p><b>Range 200 ppm</b> Upto 250 meq/l, 1:100 dil</p> <p>K: 0 - 100 K: 0 - 100 ppm 1:100 dil Upto 250 meq/l, 1:100 dil</p> <p>Ca: 0 - 10 Ca: 0 - 100 ppm Upto 250 meq/l, 1:100 dil Li: 0 - 2 1:5 dil Li: 0 - 100 ppm Upto 250 meq/l, 1:100 dil</p>	
<p><b>Sensitivity</b> Na: 0.5 ppm, K: 0.5 ppm,</p>	

Li: 0.5 ppm, Ca: 15 ppm	
Na & K supplied (Ca & Li are optional at extra cost)	
Resolution	
Repeatability % coefficient of variation for 20 consecutive samples using 10 ppm Na set as maximum standard	
Linearity 2% for 10 ppm Na/K and 5 ppm Li are set as maximum standards	
Display	Alphanumeric LCD with backlit
Average Software	
Power System	Oil free air
Sensor	Photodiode

Optical Point calibration with curve fitting software	
Gas Stable with knobs	
Flame Free	
Gas Cutoff	
Injection System	
Auto Inflow	
Provision for attachment of dot matrix printer or HP laserjet/ inkjet (non-windows) printers with centronics parallel interface	
RS-232C (PC software at extra cost)	

Power	230 V + 10% AC, 50 Hz
Dimensions	205 x 255 x 210 mm (L x B x H) (Approx.)
Weight	5 kg (Approx.)

Compressor Unit

Air Supply	Free mini compressor unit with pressure regulator
Control	CG Control Gaby precision regulator
Power	230 V + 10% AC, 50 Hz
Dimensions	200 x 255 x 210 mm (L x B x H) (Approx.)
Weight	5 kg (Approx.)

## Naugralabequipments

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