

# FP - 2385/2382

## Flame Photometer



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**Analytical Technologies Limited**

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MICROPROCESSOR FLAME PHOTOMETER, FP-2385 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 a few seconds.

Both Microprocessor Flamephotometers FP-2385 & FP-2382 are used for the determination of Sodium, Potassium, Calcium, Lithium & Barium. They use the latest microcontroller technology and advanced engineering techniques so as to give enhanced accuracy and reproducibility. They have 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.

Radiations from the flame pass through a specific narrow band interference filter and pass to the photo-detector. The final results are displayed on the 20 x 4 alphanumeric LCD. The standard model comes with 2 filters (Na & K). Additional filters Ca & Li are optional at extra cost.

In both the models, Calibration can be done with up to 25 standards of user choice (5 point for each element) and non-linearity correction is provided through an automatic curve fitting software. Multiple Calibration Curves can be stored in the memory. Facility has been provided for re-standardization with a single standard, thereby, eliminating the need of multiple standards once a calibration has been performed.

### ►► **Advantages :**

- Auto Gas Cutoff Facility (FP-2385 only)
- Auto Flame Failure Detection Facility (FP-2385 only)
- $\mu$ P Based With Printer Interface
- Five Element Measurement In Single Aspiration of The Sample
- Calibration Curve Programmability Using Maximum of 25 Standards
- Data Processing Through Curve Fitting Techniques - Least Squares, Quadratic
- Multiple Calibration Curves Saving Facility
- Samples Data Storage Facility
- Online Help Key
- Printer Attachment Facility
- Measurement In ppm & meq
- Useful For Both Medical & Soil Testing Applications
- Setup Storage Facility upto 10 setups

### ►► **COMPRESSOR UNIT :**

- Air Supply: By oil free mini compressor unit with pressure regulator
- Combustion Gas LPG: Controlled by precision regulator
- Power: 230V  $\pm$  10% AC, 50Hz
- Dimensions (LxBxH): 290 x 255 x 210 mm (Approx.)
- Box: 370 x 358 x 300mm
- Weight: 8 Kg. (Approx.)
- Box: 9 Kg (Approx.)

## ►► Specification :

Model	FP-2385/2382			
Range	General Range		Serum Range	Urine Range
	ppm	meq/l	meq/l	meq/l
	Na : 0-100	upto 250 meq/l, 1:100 dil.	0-200 meq/l, 1:100 dil.	0-250meq/l, 1:100 dil.
	K : 0-100	upto 250 meq/l, 1:100 dil.	0-10 meq/l, 1:100 dil.	0-100meq/l, 1:100 dil.
	Ca : 0-100	upto 250 meq/l, 1:100 dil.	-	0-10meq/l, 1:2 dil.
	Li : 0-100	upto 250 meq/l, 1:100 dil.	0-2 meq/l, 1:5 dil.	-
	Ba : 50-100	-	-	-
SENSITIVITY	General Mode: Na:0.5 ppm, K:0.5 ppm, Li:0.5 ppm, Ca:15 ppm, Ba: 50 ppm			
FILTERS	Na & K Supplied (Ca & Li are optional at extra cost)			
RESOLUTION	0.1 ppm/0.1 meq.			
REPRODUCIBILITY	< 1 % coefficient of variation for 20 consecutive samples using 10 ppm Na set as Maximum Standard			
LINEARITY	<2% error when 3 ppm Na/K and 5 ppm Li are set as Maximum Standard			
CURVE FIT ACCURACY	±2% of FS			
DISPLAY	20 x 4 Character alphanumeric LCD display with backlit			
AVERAGE TIME	In-built in Software			
FLAME SYSTEM	LPG & Dry Oil Free Air			
DETECTOR	Photodiode			
CALIBRATION	with up to 25 Standards of User Choice with Curve Fitting Software (5 for each Element) Multiple Calibration Curves can be stored in the memory			
GAS CONTROL	Adjustable with knob			
FLAME FAILURE	Auto Detection (FP-2385 only)			
GAS CUTOFF	Automatic (FP-2385 only)			
IGNITION SYSTEM	Auto Ignition			
AUTOMISER	Axial Flow Type			
DIMENSIONS (LxBxH)	Instrument: 285 x 255 x 210 mm Approx. Box: 600 x 360 x 320mm			
PRINTER	Provision for attachment of Dot-Matrix Printer or HP Laserjet! Inkjet printer (non-win printers) with centronics parallel interface			
RS 232 INTERFACE	Available (PC software at extra cost)			
WEIGHT	Main Unit: 9 Kg. (Approx.) Box: 10.5 Kg (Approx)			
POWER SUPPLY	230 V AC ± 10%, 50 Hz			

## Regulatory compliances



## Corporate Social Responsibility

Analytical Foundation is a nonprofit organization (NGO) found for the purpose of:



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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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