



**EIE INSTRUMENTS PVT. LTD.**  
(An ISO 9001:2015 Certified Company)

## FLAME PHOTOMETER - MICROPROCESSOR BASED - DUAL CHANNEL - MODEL 049100

### Principle:

A solution of the salt is aspirated into the LPG-AIR flame. The vapor takes up energy from the flame and emits the wavelength characteristic color of the element being tested. The intensity of emitted light is proportional to the concentration of the metal ion in the solution. This light is measured through a filter/detector/ amplifier combination. This being a comparator, known Standard solutions are to be used for calibration.

### Salient Features:

- Compact
- Ease of Operation
- Mains Operated Dual Channel LINEAR / Versions
- Large Bright LED Digital Display
- Rapid and accurate determination of Na, K, Ca & Li
- Compressor with Stable pressure output

### Applications

- Agriculture Biochemistry
- Cement Ceramics
- Chemicals Oil RefiningS
- Fertilizer Food & Dairy Industry
- Geology Horticulture
- Metallurgy Water Analysis

This model can be used either N (NORMAL) or LIN (LINEARISER) mode for sodium only the microprocessor will calculate a Piece wise Linear curve with the standard point stored as references and will display the linearized output. At any time, the Mode can be changed to the N (NORMAL) mode to see the output signal directly without any processing. The highest standard used will define the maximum range for value can be seen in the NORMAL mode usual.

### Note :

Moreover, we request to you make necessary arrangement of prerequisites **LPG gas cylinder with regulator, double distilled water, NACL LR grade, KCL LR grade, NA standard solution 2 ppm, 4 ppm, 6 ppm, 10 ppm and K standard solution 10 ppm, power supply 230 volt, 50 Hz 25 Amp power plug** to carry out the said demonstration at a stretch

#### Corporate Office:

A-1301, BVR Ek, Opp. Hotel Inder Residency,  
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#### Calibration Laboratory:

B-14, Zaveri Industrial Estate, Opp. Shyam Villa,  
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GST TIN No. : 24AABCE4018L1ZU  
I.T. PAN No. : AABCE 4018L  
IEC No. : 0813026598 Dt. 04/03/2014  
CIN No. : U29199GJ2004PTC045078  
TAN No. : AHME00572F



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## Technical Specification

•Filters	: Narrow band-pass interference filters for Sodium, Potassium, Calcium and Lithium available.
•Detector	: Hermetically sealed Silicon Photo Detector
•Power Supply	: Full IC Regulated Power supply to take care of mains variation of voltages between 200 to 250V
•Amplifier	: Highly stable, High Gain all IC amplifier
•Display	: Large, Bright Seven Segment LED Panel meter to display 0-100 scale with negative and over range indication. Sensitivity:
•Sensitivity	: "Na" 4 ppm and "K" 2 ppm FSD Standard
	: "Na" 2 ppm and "K" 1 ppm available at no extra cost on prior request.
•Compressor	: Oil free, diaphragm type with air reservoir. 90W motor, fuse protected complete with accessories. Stable pressure for mains fluctuations bet
•Atomiser	: Non-corroding, easily accessible and can be cleaned without putting out the flame.
•Sample Take-up-rate	: 5ml/min approximately
•Flame	: LPG cylinder required with regulator (To be arranged by user)
•Nominal Input voltage	: 220V, 50Hz Single Phase
•Dimensions	: Flame Photometer 28X23X20cm
•Compressor	: 25.5 X20X23cm
•Packing Dimensions	: 60X45X45cm
•Net Weight	: Flame Photometer 6.5 Kg. , Compressor 9.1Kg
•Gross Weight 20 Kg. Approx.	

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