

Microcontroller Based Flame Photometer

Model: μ FlameCal10+ | Make: ANALAB | HSN Code: 90275010



Supplied with Two Filters (Na and K), Air Supply Unit, Atomizer Tube, Sample Beaker (06 Nos.), Gas Lighter, LPG Tube, Power Cord, Operational & Instruction Manual with SOP, Calibration Test Certificate (Without Traceability Document) and Warranty Card.



Technical Specification:

Element Range	: Na, K, & Li: 1-100 ppm, Ca: 15-100 ppm, Ba: 50-1000 ppm
Sensitivity	: Na: 0.5 ppm, K: 0.5 ppm, Li: 0.5 ppm, Ca: 15 ppm, Ba: 50 ppm
Filter Selection	: Automatic by soft touch key
Resolution	: 0.1 ppm
Detector	: Silicon Photodiode
Linearity	: Better than 2%
Unit of Measurement	: ppm
Reproducibility	: <1% Coefficient of Variation (CV) for 20 consecutive samples using 10 ppm Na set as maximum standard & Barium 3% CV for 20 consecutive samples of Concentrations between 50 to 199 ppm.
Curve Fitting Accuracy	: <1% error when 3 ppm Na/K and 5 ppm Li are set as maximum standards.
Quick Calibration Facility	: With Highest standard
Dilution Factor	: Yes, by soft touch keypad.
Calibration	: Up to 03 standards per Elements with Curve Fitting Software in-built with Instrument. (Automatic calculation of curve coefficient)
Ignition System	: Auto Igniter
Flame Type	: LPG & Dry Oil Free Air
Auto Flame ON / OFF Detection	: Audio and Visual Alarm
Gas Control	: Adjustable with Regulator
Atomizer	: Axial Flow Type
Air Flow Monitoring Facility	: 4 - 6 ml/min., In-built with Instrument
Error Messages	: “Home Detection”, “Memory Full”, “Flame is Off”, “Value Out of Limit”, “Do Warm-up”, “In Correct Standard” & “Enter in Range”.
Display	: 16x2 Line Alphanumeric LCD with Backlit
Keypad	: Membrane waterproof polycarbonate soft touch keypad compliance to UL/ROHS
Air Supply Unit (Separate Unit)	: Consist of Air Compressor, Pressure Gauge, Pressure Regulator, Moisture Filter, PU Tube (2 Meters) and Air filter with moisture absorbent catalyst.
Calibration Data Storage	: Non-Volatile Memory which can store, print & view Calibration report date & time, Last calibration date & time, * calibration done by, standards result, calibration done on, instrument serial number, instrument ID etc.
Analysis Data Storage	: More than 500 analysis data which can be viewed & Print, company name, analysis date & time, record number, *Username, *Sample Name, *Bath Number/ID, Calibration data of lower & higher standard, result, Dilution factor, instrument serial number, Instrument Make & Model & *Signature etc. Secondly, analysis data can be print online

without saving analysis data in Instrument. (*: **Not Possible to enter Data by Instrument Keypad but it will be Handwritten**)

Searching of data	:	With record number by scrolling.
Report Formation	:	As per Non-GLP Compliance
Printer Interface	:	Centronics Parallel Port/ Serial (RS-232 C) Port
Printer	:	40/ 80 Column Dot Matrix Printer (Printer must procure optionally)
Power Supply	:	230VAC \pm 10%, 50 Hz

Optional

1. IQ/OQ/PQ/DQ Documents

Note: a) Please provide Customer's Name & Address prior to dispatch.

b) To perform onsite documentation, visit charge will be extra depending upon place of Installation.

c) Traceability documents along with installation report.

d) Standards/ Chemicals/ Buffers required to perform documents are in customer's scope.

e) We don't send documents by email.

2. Calcium (Ca) Filter – HSN Code : 90022000

3. Lithium (Li) Filter – HSN Code : 90022000

4. Sodium 100 ppm Stock Solution – 500 ml - HSN Code : 3822.0090

5. Potassium 100 ppm Stock Solution – 500 ml - HSN Code : 3822.0090

6. Calcium 100 ppm Stock Solution – 500 ml - HSN Code : 3822.0090

7. Lithium 100 ppm Stock Solution – 500 ml - HSN Code : 3822.0090

8. Keypad Screen Guard – HSN Code : 39199010

9. Traceability Documents

Available other Models of Flame Photometer

- Microcontroller Based Flame Photometer Model: μ FlameCal5 with Single Standard Calibration
- Microcontroller Based Flame Photometer Model: μ FlameCal10+ with Three Standard Calibration as per Non-GLP Format
- Microcontroller Based Flame Photometer Model: μ FlameCal50 with Five Standard Calibration with Printing Facility as per GLP Format
- Microcontroller Based Flame Photometer Model: μ FlameCal100 with 21 CFR Part-11 Compliance & Printing Facility as per GLP Format

Product Range

- pH/mV/°C/ORP Analyzer • Conductivity/TDS/Resistivity/Salinity/°C Analyzer
- Multiparameter Analyzer (pH/ORP/Conductivity/TDS/Resistivity/Salinity/°C)
- Karl Fischer Titrator • Auto Titrator • Automatic Melting Point Apparatus
- Flame Photometer • Friability Test Apparatus • Tablet Dis-integration Test Apparatus
- Tap Density Test Apparatus • Tablet Hardness Tester • Leak Test Apparatus
- Tablet Dissolution Test Apparatus • Electromagnetic Sieve Shaker • Ultrasonic Bath (Sonicator) • Analytical Electronics Balance • Halogen Based Moisture Analyzer
- Visible & UV-Vis. Spectrophotometer • Nitrogen Gas Generator • Zero Air Gas Generator • Combination Nitrogen / Zero Air Gas Generator • Air Drying Unit for TOC Analyzer • Dew Point Apparatus • Gas Handling & Purification System • Laboratory Furniture & Fume Hood • Exhaust Hood for AAS/ICP.

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