

Microcontroller Based Flame Photometer

Model: μ FlameCal50 | 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: 1-200 ppm, Ca: 15-300 ppm, Ba: 30-3000 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
Calculation of Concentration	: In built with system & can be measure by Sample Weight & Dilution Factor.
Reproducibility	: <1% Coefficient of Variation (CV) for 20 consecutive samples using 10 ppm Na set as maximum standard & Barium 3% Coefficient of Variation (CV) for 20 consecutive samples of Concentrations between 50 to 199 ppm.
Stability	: < 2% drift over 5min when continuously aspirating 10 ppm sample Specificity Interference from Na/K and Li.
Curve Fitting Accuracy	: <1% error when 3 ppm Na/K and 5 ppm Li are set as maximum standards and can measure calculation of curve coefficient automatically.
Correlation Factor	: Possible with System
Quick Calibration Facility	: With Highest standard
Calibration	: Up to 05 standards per Elements with Curve Fitting Software in-built with Instrument & have automatic calculation of curve coefficient.
Measurement of Sample	: Multi elements in single aspiration OR one by one.
Ignition System	: Auto Ignition
Flame Type	: LPG & Dry Oil Free Air
Auto LPG Shut-off at Power Off:	Safety feature in case of sudden power failure
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	: “LPG is Off”, “Home Detection”, “Memory Full”, “Flame is Off”, “Value Out of Limit”, “Do Warm-up”, “In Correct Standard” & “Enter in Range”.

Display	: 20 x 4 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 report date & time, company name, Last calibration date & time, calibration done by, standards result, calibration done on, instrument serial number, instrument ID etc.
Analysis Data Storage	: More than 750 analysis data can be stored with corresponding calibration data, analysis date & time, record number, Batch number / ID, sample name, username, assigned method number, Corresponding Calibration data of lower & higher standard, Sample Result, Dilution factor, Sample Weight, Calculation of Concentration, instrument ID, serial number, model number, make, etc. Secondly , analysis data can be print online without saving in Instrument.
Searching of data	: With record number, batch number, date, date range and by scrolling.
Report Formation	: As per GLP Compliance
Password Protection	: Date & time, calibration mode & delete stored analysis data.
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. Barium (Ba) Filter – HSN Code : 90022000

5. Sodium 100 ppm Stock Solution – 500 ml - HSN : 38220090

6. Potassium 100 ppm Stock Solution – 500 ml - HSN : 38220090

7. Calcium 100 ppm Stock Solution – 500 ml - HSN : 38220090

8. Lithium 100 ppm Stock Solution – 500 ml - HSN : 38220090

9. Barium 1000 ppm Stock Solution – 500 ml - HSN : 38220090

10. Keypad Screen Guard – HSN Code : 39199010

11. 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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Specification & design are subject to change without prior notice for our continuous development.