



Cool FP 501

Flame Photometer

Flame Photometry provides a simple method of analysis and concentration determination of elements which cannot be easily measured using any other technique.

BSR Technologies introduces Hi-tech Flame Photometer COOL FP-501, design for reliable and routine analysis for quality control in clinical laboratory, industries and in educational institutions. COOL FP-501 has a unique design for measuring four elements (Na, K, Ca, Li/Ba) simultaneously within 35 seconds. COOL FP-501 covers wide range of industrial application in food and beverages, cement sectors, pharmaceutical as well as agricultural, biological and clinical applications. The COOL FP-501 has developed by a team of experts with more than four decades of experience in designing, manufacturing and marketing analytical instruments.

Unique Design Features

- Large, bright, color, graphic LCD display.
- Navigation Key pad on screen menus.
- Dot Matrix Printer connection provision.
- In Built SMPS.
- Removable Power Cord.

Technology

- Flame photometry is an atomic emission technique which may be regarded as simplest of atomic spectroscopic methods very similar to flame test which is applied detection of alkali metals.
- Microcontroller Based Technology.

Salient Features

- Simultaneous detection of four Elements (Na, K, Ca, Li/Ba).
- Easy to use, ignition and flame optimization.
- Result of four elements within 35 seconds.
- Unmatched Accuracy and Reliability.
- Flexible and Customized as per user application.
- Data displayed in concentration units like ppm, meq etc.
- Auto fuel cut off after 30 minutes without pressing any key.
- Built in curve for accurate results like TPA, PLA, and BFC.

Application

- Pharmaceuticals.
- Soil analysis.
- Food and beverage.
- Mineral extraction.
- Chemical and Petrochemicals.
- Fertilizers.
- Clinical.
- Agricultural.
- Biological.

Technical Specifications

- Range of Operation
 - Sodium 0-30 ppm
 - Potassium 0-30 ppm
 - Calcium 0-30 ppm
 - Lithium 0-30 ppm
 - Barium above 75 ppm
- Detection
 - Element Detection Limits
 - Sodium 0.1ppm
 - Potassium 0.1ppm
 - Calcium 0.5ppm
 - Lithium 0.1ppm
 - Barium 75 ppm
- Reproducibility
 - 1ppm - \pm 10% of RSD
 - 30ppm - \pm 5% RSD
- Display Units/Modes Selectable, ppm
- Typical Sample Uptake Rate 4ml/min
- Sample Consumption Approx. 1.5 ml for all 4 Elements
- Aspiration Time Automatic
- Flame Ignition Manual with Built-in Ignition Coil
- Air Supply Oil and Moisture free air @ 1.5 bar
- Fuel Supply LPG
- Nebulizer All Metallic axial flow type
- Safety Protection Auto Fuel cut-off when Flame is unstained. Alarm provided.
- Calculation TPA(Two Point Approximation) PLA(Piecewise Linear Approximation) BFC(Best Fit Curve)(for non-linear working curve)
- Method range Up to 125 Methods can be Stored
- Keyboard 22 key membrane type keys for parameter selection.
- Display Large, Backlit, Graphic LED(240 \times 128 pixels)
- Provision for Printer 80 columns Dot Matrix (Optional)
- Power AC mains 95-270 Ac/50-60Hz
- Weight 12 Kg(approx)
- Approx. Size(in mm) 430 \times 300 \times 235(L \times W \times H)

Ordering Information

Part Number	Description
250FPA05	Flame Photometer- COOL FP 501 with Accessories

* Product specifications are subject to change without notice.



Manufacturing facility:

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