



FP902

FLAME PHOTOMETER

Flame photometry provides a simple method of analysis and concentration determination of elements which cannot easily be measured using any other technique. PG Instruments application notes for users of our versatile new flame photometers cover a wide range of industrial sectors, from food and drink to cement, minerals and glass, as well as agricultural, biological and clinical applications.





The PG Instruments FP902 Flame Photometer offers the combination of clinical, industrial and education applications in ONE instrument. It gives accurate, fast and precise analysis of sodium, potassium, calcium and lithium in one simple aspiration.

The FP902 uses a soft touch key pad for ease of data entry and features electronic ignition, automatic flame failure safety and will operate using butane, natural gas or LPG.

TYPICAL APPLICATIONS

- Soil and Agricultural Analysis
- Biological Fluids
- Petrochemical Industry
- Food and Drink Analysis

FEATURES & FUNCTIONS

- Five element measurement in a single aspiration (Na, K, Li, Ca and Ba).
- Curve calibration using up to 5 standards.
- Calibration curve fit routines first order and second order.
- Multiple calibration curve saving facility.
- Sample data storage.
- Printer attachment.
- Data displayed in concentration units ie. ppm, meq etc.

Specifications

| Mode | General Analytical Applications | Serum | Urine |
|--------------------|--|--|--|
| Range | Na: 0.1-100 ppm Up to 250 meq/l, 1:100 dil K: 0.1-100 ppm Up to 250 meq/l, 1:100 dil Ca: 15-100 ppm Up to 250 meq/l, 1:100 dil Li: 0.5-100 ppm Up to 250 meq/l, 1:100 dil | Na: 0-200 1:100 dil K: 0-10 1:100 dil Ca: - Li: 0-2 1:5 dil | Na: 0-250 1:100 dil K: 0-100 1:100 dil Ca: - Li: 0-10 1:2 dil |
| Sensitivity | General Mode: Na:0.5 ppm, K:0.5 ppm, Li:0.5 ppm, Ca:15 ppm, Ba:30 ppm | | |
| Filters | Filters for Sodium, Potassium, Lithium, Calcium and Barium are included. | | |
| Resolution | 0.1 ppm/meq | | |
| Reproducibility | ± 2% FS, & ± 2 Digits | | |
| Curve Fit Accuracy | ± 2% FS | | |
| Display | 20 x 4 Alphanumeric backlit LCD display | | |
| Flame System | LPG & dry oil free air | | |
| Detector | Silicon Photodiode | | |
| Calibration | Up to 5-Point Calibration with curve fitting software | | |
| Gas Control | Fully Adjustable | | |
| Ignition System | Auto Ignition | | |
| Atomiser | Axial flow type | | |
| RS-232C Interface | RS-232 PC Software available | | |
| Power | 230 V ± 10% AC, 50/60 Hz | | |
| Dimensions | 365 x 245 x 220 mm (L x B x H) (Approx.) | | |
| Weight | Main Unit: 7.5Kg. (Approx.) | | |

Compressor Unit

| | |
|--------------------|--|
| Air Supply | Oil free compressor unit with pressure regulator |
| Combustion Gas LPG | Controlled by precision regulator |
| Power | 230 V ± 10% AC, 50/60 Hz |
| Dimensions | 290 x 255 x 210 mm (L x B x H) (Approx) |
| Weight | 8Kg. (Approx.) |

We reserve the right to modify, revise/upgrade, suspend or discontinue any Product in whole or in part, either temporarily or permanently, with or without notice.



ALMA PARK, WIBTOFT
LEICESTERSHIRE, LE17 5BH
UNITED KINGDOM

T: +44 (0)1455 220131

F: +44 (0)1455 220025

www.pg instruments.com

V2-10/13