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.

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.

**TYPICAL APPLICATIONS**

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

**FEATURES & FUNCTIONS**

- Four element measurement in a single aspiration (Na, K, Li and Ca)
- 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

<table>
<thead>
<tr>
<th>Mode</th>
<th>General Analytical Applications</th>
<th>Serum</th>
<th>Urine</th>
</tr>
</thead>
<tbody>
<tr>
<td>Range</td>
<td>Na: 0.1-100 ppm Na: 0-100 ppm Na: 0-250 ppm</td>
<td>Na: 0-200 Na: 0-100 Na: 0-100</td>
<td>Na: 0-250 Na: 0-100</td>
</tr>
<tr>
<td></td>
<td>Up to 250 meq/l, 1:100 dil 1:100 dil 1:100 dil</td>
<td>1:100 dil 1:100 dil 1:100 dil</td>
<td>1:100 dil 1:100 dil</td>
</tr>
<tr>
<td></td>
<td>K: 0.1-100 ppm K: 0-100 ppm K: 0-100 ppm</td>
<td>K: 0-10 K: 0-100 K: 0-100</td>
<td>K: 0-10 K: 0-100</td>
</tr>
<tr>
<td></td>
<td>Up to 250 meq/l, 1:100 dil 1:100 dil 1:100 dil</td>
<td>1:100 dil 1:100 dil 1:100 dil</td>
<td>1:100 dil 1:100 dil</td>
</tr>
<tr>
<td></td>
<td>Ca: 15-100 ppm Ca: 0-2 Ca: 0-100 ppm</td>
<td>Ca: - Li: 0-2 Ca: - Li: 0-2 Ca: - Li: 0-10</td>
<td>Ca: - Li: 0-10 Ca: - Li: 0-10</td>
</tr>
<tr>
<td></td>
<td>Up to 250 meq/l, 1:100 dil 1:5 dil 1:2 dil</td>
<td>1:5 dil 1:5 dil 1:2 dil</td>
<td>1:2 dil</td>
</tr>
<tr>
<td></td>
<td>Li: 0.5-100 ppm Li: 0-20 Li: 0-100 ppm</td>
<td>Li: 0-2 Li: 0-10 Li: 0-100</td>
<td>Li: 0-10 Li: 0-100</td>
</tr>
<tr>
<td></td>
<td>Up to 250 meq/l, 1:100 dil 1:100 dil 1:100 dil</td>
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</tr>
</tbody>
</table>

### Sensitivity
- General Mode: Na:0.5 ppm, K:0.5 ppm, Li:0.5 ppm, Ca:15 ppm

### Filters
- Filters for Sodium, Potassium, Lithium and Calcium 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

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