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.

**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.

**TYPICAL APPLICATIONS**
- Soil and Agricultural Analysis
- Biological Fluids
- Petrochemical Industry
- Food and Drink Analysis
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</td>
<td>Na: 0-200</td>
<td>Na: 0-250</td>
</tr>
<tr>
<td></td>
<td>Up to 250 meq/l, 1:100 dil</td>
<td>1:100 dil</td>
<td>1:100 dil</td>
</tr>
<tr>
<td></td>
<td>K: 0.1-100 ppm</td>
<td>K: 0-10</td>
<td>K: 0-100</td>
</tr>
<tr>
<td></td>
<td>Up to 250 meq/l, 1:100 dil</td>
<td>1:100 dil</td>
<td>1:100 dil</td>
</tr>
<tr>
<td></td>
<td>Ca: 15-100 ppm</td>
<td>Ca: - Li: 0-2</td>
<td>Ca: - Li: 0-10</td>
</tr>
<tr>
<td></td>
<td>Up to 250 meq/l, 1:100 dil</td>
<td>1:5 dil</td>
<td>1:2 dil</td>
</tr>
<tr>
<td></td>
<td>Li: 0.5-100 ppm</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Up to 250 meq/l, 1:100 dil</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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

<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>

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.