

[BWB TECHNOLOGY, UK.](#)

Flame Photometer The New BWB-1 Flame Photometer - detect Sodium (Na) - Potassium (K) - Lithium (Li) - Calcium (Ca) - Barium (Ba)

The all new BWB-1 Flame Photometer offers simple and reliable measurements in Flame Photometry offering the user the capability to simultaneously detect Sodium (Na) - Potassium (K) - Lithium (Li) - Calcium (Ca) - Barium (Ba) and display of all 5 elements.

The BWB-1 Flame Photometer is a high quality, high performance instrument, employing modern technology to ensure simple and reliable measurements. As it is supplied as a full package including an air compressor (not affected by high humidity), a gas regulator, filters for Na - K - Li - Ba and Ca, both computer and auto-sampler compatible and finally offers switchable voltage. With this in mind the user has no hidden costs! The Flame Photometer only requires the provision of either propane or butane gas to enable it to be used straight out of its package.

Please click [here](#) to compare the benefits from the BWB-1 over it's competitors!



Main features of the BWB-1 flame photometer:

- Filters for Na, K, Li, Ca and Ba
- Simultaneous detection and display of all 5 elements
- Internal standard for both Na and Li.
- 2 point and multi point calibration
- Unit retains calibration values
- Flameout detection and automatic shutdown
- Automatic start-up routine
- Self-diagnostics on set up
- Diagnostic indicators
- Detection to ensure drain trap filled
- Modular sub component replacement
- In built air compressor
- Replaceable aspirator needle
- Adjustable mixing chamber orientation
- Impact bead
- Computer interface
- External Computer in-out control
- Cycle based maintenance alerts
- Moisture separator included
- Auto moisture drain
- Chart recorder output
- Gas regulator fitted
- Switchable voltage
- RoHS compliant
- Auto Sampler compatible



Linearisation:	Included in the software, and available on any of the 5 elements. Achievable on both single and Multi Point calibrations.																																					
Aspiration Rate:	3-5.5ml/min																																					
Optimal Range:	<table border="1"> <tr> <th colspan="3">Single Point Calibration:</th> <th colspan="3">Multi Point Calibration:</th> </tr> <tr> <td>Na</td> <td>0.05</td> <td>- 60ppm</td> <td>Na</td> <td>0.05</td> <td>- 1000ppm</td> </tr> <tr> <td>K</td> <td>0.05</td> <td>- 100ppm</td> <td>K</td> <td>0.05</td> <td>- 1000ppm</td> </tr> <tr> <td>Li</td> <td>0.1</td> <td>- 50ppm</td> <td>Li</td> <td>0.1</td> <td>- 1000ppm</td> </tr> <tr> <td>Ca</td> <td>2.5</td> <td>- 100ppm</td> <td>Ca</td> <td>2.5</td> <td>- 1000ppm</td> </tr> <tr> <td></td> <td></td> <td></td> <td>Ba</td> <td>30</td> <td>- 3000ppm</td> </tr> </table>	Single Point Calibration:			Multi Point Calibration:			Na	0.05	- 60ppm	Na	0.05	- 1000ppm	K	0.05	- 100ppm	K	0.05	- 1000ppm	Li	0.1	- 50ppm	Li	0.1	- 1000ppm	Ca	2.5	- 100ppm	Ca	2.5	- 1000ppm				Ba	30	- 3000ppm	
Single Point Calibration:			Multi Point Calibration:																																			
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Reproducibility:	<1% coefficient of variability for 20 consecutive samples over 10 minutes (after instrument stabilisation) at concentrations of 100ppm or less.																																					
Limits of Detection:	<table border="1"> <tr> <td>Na</td> <td>0.02ppm.</td> </tr> <tr> <td>K</td> <td>0.02ppm.</td> </tr> <tr> <td>Li</td> <td>0.05ppm.</td> </tr> <tr> <td>Ca</td> <td>1.0ppm.</td> </tr> <tr> <td>Ba</td> <td>10ppm.</td> </tr> </table>	Na	0.02ppm.	K	0.02ppm.	Li	0.05ppm.	Ca	1.0ppm.	Ba	10ppm.																											
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Time to Stability:	Less than 15 seconds after sample is introduced into the flame.																																					
Drift:	Less than 1% per 30 minutes after instrument stabilisation.																																					
Specificity:	Na/K/Li = <0.5% to each other when equal in concentration at <100ppm.																																					
Number of Parameters Measured:	Simultaneous display of Na, K, Ca, Li, Ba.																																					
Size:	51 cm high x 38 cm wide x 41 cm deep.																																					
Weight:	Instrument = 14 kg Shipping = 21 kg																																					

