



Flame photometer BWB-1

1- Switch on the Flame Photometer

2- Open propane gas cylinder and turn the (Fuel adjustment Knob) on the front panel to the right

3- Fill the "U" tube with tap water

4- Turn on Flam by press 1 or accept

5-Clibaration: View calibration will display the calibration state of each ion, the type of calibration - single point or multi point.

6- Select the appropriate ion and press "Accept". This will show a screen displaying the calibration details for that ion.

7-Multi Point

- Press “Calibrate” button or scroll to Calibrate and press “Accept”. The display prompts “Choose Ion”.
- Choose the desired ion. The ion LED will illuminate and the display will prompt “Single Point/Multi Point”.
- Choose Multi Point. The “Multi Point” LED will illuminate and the display will prompt “Enter number of points”.
- Enter from 2-15.The display will prompt “Run Blank”.
- Start aspirating the Blank solution and press “Blank”. The prompt will state “Flushing Chamber” for a few seconds and then will state “Acquiring Value”.
- When the signal has stabilized, the prompt will first state “Cal point accepted” and then prompt “Enter value of Standard # 1”.
- Start aspirating Standard #1 solution.
- Enter the concentration (in desired units) of the desired Standard #1 solution. Press “Accept”. The prompt will state “Flushing Chamber” for a few seconds.
- When the signal has stabilized, the prompt will state “Cal point accepted” and prompt “Enter value of Standard #2”.
- Start aspirating Standard #2 solution.
- Enter the concentration (in desired units) of the desired Standard #2 solution. Press “Accept”. The prompt will state “Flushing Chamber” for a few seconds.
- When the signal has stabilized, the prompt will state “Cal point accepted” and prompt “Enter value of Standard #3”.
- Repeat through all the desired Standards. When the last Standard is accepted, the display returns to the Main Menu.
- Other ions can be calibrated by repeating the above.

8-Read Mode

In the Read Ion Levels Mode all the results for all five ions are displayed simultaneously. Use the scroll buttons to adjust the order of the ions on the screen. One of three icons will be displayed next to each ion indicating whether its' particular calibration was a Single (s), Multi Point (m), or Not Calibrated (n). If the unit has not been calibrated when you enter the Read Ion Levels Mode the display will not show any readings. Pressing ACCEPT will take you to a sub-menu where you can choose to display the raw data or detailed information on each ion. The raw data is a numerical value that represents the magnitude of the signal detected for each ion. You can scroll through this sub menu using the ACCEPT key. The BACK key will take you back into Read Ion Levels.

9-Running Samples

- Start aspirating the unknown sample.
- From the Main Menu, press "Read" button.
- When readings stabilize, results are displayed.

10- Shut Down

From the Main Menu, press "Stop". To prevent unwanted shutdowns you will then be asked to confirm the shutdown by pressing "Accept" or to resume by pressing "Stop". Turn the power switch to Off.

11- Turn off gas

12- Report Tab

1- The Report Tab is the heart of the FP-PC. It aids in determining when a reading can be taken and generates a report containing all the pertinent information. It is activated only when in the Reading Mode on the FP.

2-Clicking the Logo will bring up a browser window to allow the operator to select a company logo for the Pdf report.

3- The "Sample ID" must be changed for the next sample to be read. The "Job/Batch", "Sample ID", and "Description" fields must be filled to take a reading. To the right of Sample ID is the "Next" box. If the Sample ID has a numeric value ticking the box will increase the number by one.

4- To take a reading, click on the "Take Reading" box when satisfied that the graph plot is stable. The report is generated as a .Pdf file and saved at C:\ Program Files\BWB Flame Photometer\Reports. Clicking on "Reports" box will open that folder. Clicking on "Last" box will open up the last report.