

# ABL90 Patient Testing

## Operator Log On/Off

All operators require unique log on identification. This ensures that only trained operators use the analyser. This is an accreditation requirement and is one of the steps to allow an audit trail of blood gas analysis. Log on by scanning or entering your ID. Log off after using the analyser and do not allow other staff to use your log in.

## Analyser Status

The analyser is ready for use when three conditions are met.





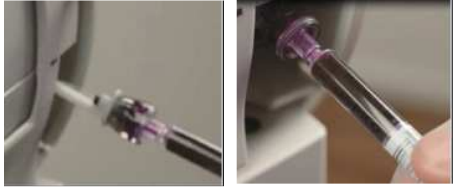



1. Ensure the analyser is **Ready**
2. The color of the tab of the parameters you want to get a result for is green or yellow
3. The color of the traffic light in the analyzer status button is green or yellow

## Traffic Light Interpretation

<p><b>Green traffic light</b> –Ready—Proceed with analysis</p>	
<p><b>Yellow traffic light</b> – Maintenance required or consumables are running low. You can still process samples and all analytes will be tested. Laboratory staff will perform maintenance and replace consumables.</p>	
<p><b>Red traffic light</b> – Critical error present Results will not be given for any analytes coloured red Proceed with analysis if the red coloured analytes are not required. If the red coloured analytes are required, or all the analytes are coloured red, send the sample to the laboratory. Notify the laboratory, see troubleshooting page for details and contactable times.</p>	

## Running a sample on the ABL90

<p>1. Make sure the analyser is in <b>READY</b>. Ensure all analytes required are green.</p>	
<p>2. Enter or scan your Staff ID number</p>	
<p>3. Put the syringe in the sample mixer. It automatically mixes with the magnetic ball for 7 seconds. Wait until the light starts blinking. Remove the syringe.</p>	
<p>4. Select syringe. Capillary is not available (send to lab). The analyser opens the inlet.</p>	
<p>5. Place safePICO syringe in the centre of the inlet gasket. Push the syringe <b>by its barrel</b> towards the analyser as far as it will go. The needle will go through the lid. <b>Hold</b> it there while the blood is aspirated. <b>Remove</b> the sample when you hear the beep.</p>	
<p>6. <b>Patient ID: Scan the encounter number barcode on the patient's bradma label.</b> Confirm correct patient from popup box. Select <b>Arterial</b> or <b>Venous</b> Enter O2 status as a % and temperature (if required)</p>	
<p>7. The patient result will be displayed. Print only if required. Select <i>messages</i> box if one or more analytes has not resulted to find out the reason why. <b>Log Off</b></p>	

## Patient results

Once the analyser has processed the sample, it will give results on the screen. It is optional to print them out. On the right hand side of the results sheet in [ ] are the reference ranges. These will vary for arterial and venous collects. The reference ranges are based on the Hastings laboratory ranges. Temperature corrected values for pH, pCO<sub>2</sub> and pO<sub>2</sub> are available if a temperature has been entered. Various symbols may appear next to one or many of the results, refer to the box below to understand what these mean.

To refer back to a patient result, go to the main screen, top right corner > My Results > select patient using the encounter number.

NOTE: If no result appears, this may be due to the parameter being out of control or calibration. This would be signified by a red box over the analyte name on the main screen.

## Symbols on patient results

**⚠ WARNING – Risk of making incorrect clinical decisions**

A clinician must always interpret patient test results in the relevant clinical context.

Problems on patient results are marked with one or more of the symbols shown in the table.

Symbol	Description
?	An error occurred. A message attached to the result describes the error.
↑	Result is above the reference range but below the upper critical limit
↓	Result is below the reference range but above the lower critical limit
↑↑	Result is above the upper critical limit but below the upper limit of the reportable range
↓↓	Result is below the lower critical limit but above the lower limit of the reportable range
↑↑↑	No result is shown because it is above the upper limit of the reportable range.  Note: The analyser can be set up to show the result as greater than the value of the upper limit of the reportable range. For example: All pH results above 7.850 (the upper limit of a pH reportable range) will be shown as >7.850.
↓↓↓	No result is shown because it is below the lower limit of the reportable range.  Note: The analyser can be set up to show the result as less than the value of the lower limit of the reportable range. For example, all pH results below 6.750 (the lower limit of the pH reportable range) will be shown as <6.750.
.....	No result could be calculated or value outside range of indication
(blank)	No result shown because it is outside the reportable range
*	User-defined correction factors were used to calculate the result
c	A subscript of the letter c shows that the value was calculated from measured and/or keyed-in (input) values. Only shown on derived parameters.
e	A subscript of the letter e shows that the value was estimated. Default values were used to replace measured and/or keyed-in (input) values that were not available. Only shown on derived parameters.