



ABL90 FLEX PLUS

Troubleshooting guide



WARNING – Risk of infection

Make sure that you wear gloves during replacement and maintenance procedures.



WARNING – Risk of infection

Dispose and handle all used sampling devices, quality control (QC) ampoules, Solution Packs, Sensor Cassettes, Inlet Probes, Inlet Gasket Holders, Inlet Connector Gaskets and Inlet Modules as biohazardous waste. Follow your local regulations.



For more information, refer to the instructions for use or operator's manual for your analyzer.

Guided troubleshooting

Operator Action Needed

Troubleshooting Needed

Intervention Required

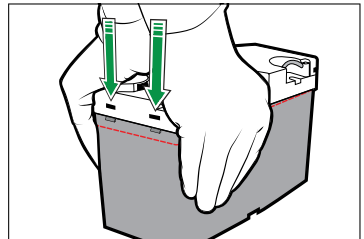
Troubleshooting is necessary when the analyzer goes into an **Operator Action Needed**, **Troubleshooting Needed** or **Intervention Required** mode.

In the troubleshooting modes, **Troubleshooting Needed** and **Operator Action Needed**, text and video instructions guide you through each troubleshooting procedure and show you what to do to get out of the troubleshooting mode.

After each troubleshooting procedure, the analyzer makes checks to find out if the issue has been resolved. If not, a new troubleshooting procedure is shown on the screen. If the guided troubleshooting procedures do not resolve the issue, the analyzer will go into the **Intervention Required** mode.

Step 1 To replace the Solution Pack

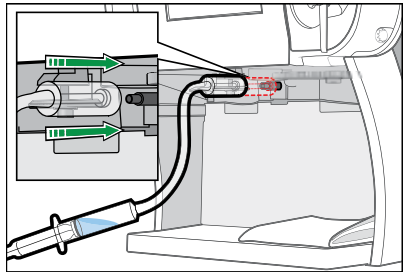
1. Start the video guidance or tap **Menu > Analyzer status > Consumables > Replace > Solution Pack > Press to start video guidance** and follow the instructions on the screen.
2. Activate the new Solution Pack.
3. Press down firmly and evenly with both hands until the tabs click into the 2 holes.
Note: For the Solution Pack to be activated correctly, both tabs must click in place.
4. Put your thumbs on the white part of the Solution Pack and push the Solution Pack into its compartment until it clicks in place.
5. Tap the **OK** button.



If the problem persists, proceed to step 2.

Step 2 To flush the fluid transport system

1. Tap the **Press to start video guidance** button.
2. Pull off the inlet cover and remove the Solution Pack.
3. Draw tap water into the Flush Device up to the 2.5 mL mark.
4. Pull the plunger of the Flush Device up to the 5 mL mark to draw air into it.
5. Pull out the Inlet Gasket Holder.
6. Connect the tip of the Flush Device to the waste connector in the Solution Pack compartment.
7. Inject a very small quantity of air to fill approximately 1 cm of the tube.
8. Inject a very small quantity of water to fill approximately 1 cm of the tube.
9. Do steps 7 and 8 again repeatedly to clean the fluid transport system.
10. Inject water until an unbroken stream of water comes out of the Inlet Probe.
11. Disconnect the Flush Device.
12. Put the new Inlet Gasket holder over the slide and insert it. Make sure that the Inlet Probe is in the center of the gasket and that the Inlet Gasket Holder clicks in place.
13. Put your thumbs on the white part of the Solution Pack and push the Solution Pack into its compartment until it clicks in place.
14. Put on the inlet cover and tap the **Action completed** button.



Step 3 To replace the Inlet Gasket Holder



WARNING – Risk of infection

Make sure you do not prick or scratch yourself on the Inlet Probe.

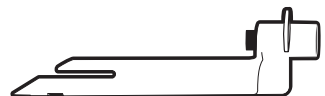


WARNING – Risk of infection

The used Inlet Gasket Holder has been in contact with blood and must be handled as potentially infectious.

1. Start the video guidance or tap **Analyzer status > Other activities > Inlet check > Repl. Inlet Gasket Holder > Press to start video guidance** button.
2. Pull off the inlet cover.
3. Pull out the Inlet Gasket Holder.
4. Put the new Inlet Gasket Holder over the slide and insert it. Make sure that the Inlet Probe is in the center of the gasket.
5. Tap the **Action completed** button.
6. Put on the inlet cover.

Inlet Gasket Holder



Recommended actions

Refer to this table if you troubleshoot single-parameter errors **after Sensor Cassette start-up**.

To see an available recommended action:

Tap **Menu > Analyzer status > Recommended action**.

Note: Use this table when there is no fluid transport error present. See previous pages for information about how to troubleshoot fluid transport errors.

Parameter	Error reading	Ranges	Recommended action
pH, K⁺, Na⁺, Ca²⁺, Cl⁻	Sensitivity error	[85-105 %] Cl ⁻ : [75-105 %]	Replace Sensor Cassette
	Status error	pH: [-50-250 mV] K ⁺ , Na ⁺ : [150-350 mV] Ca ²⁺ : [200-400 mV] Cl ⁻ : [-50-100 mV]	Replace Sensor Cassette
	Impedance error		Replace Sensor Cassette
pCO₂	Sensitivity error	[60-105 %]	Replace Sensor Cassette
	Status error	[-50-250 mV]	Replace Sensor Cassette
	Impedance error		Replace Sensor Cassette
pO₂	Sensitivity error	[85-110 %]	Replace Sensor Cassette
	Status error	[-20-20]	Replace Sensor Cassette
	QC B or C out of range		Replace Solution Pack
Glu, Lac	Sensitivity error	[100-2000 pA]	Replace Sensor Cassette
	Status error	[0-3000 pA]	Replace Sensor Cassette
	Response error		Replace Sensor Cassette
	QC A, B or C too high		Replace Solution Pack
Urea	Selectivity error (k)	[50-130 %]	Replace Sensor Cassette
Crea	Sensitivity error (Cr)	[5-30 pA/μM]	Replace Sensor Cassette
	Sensitivity error (Crn)	[5-35 pA/μM]	Replace Sensor Cassette



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