

A11 Acrylic Sampling Cell Replacement

For Blue I Water Technologies Analyzers

HYDROGUARD® HG-702 and HYDROGUARD® HG-302

Catalog part number (complete sampling cell kit): AMK0011

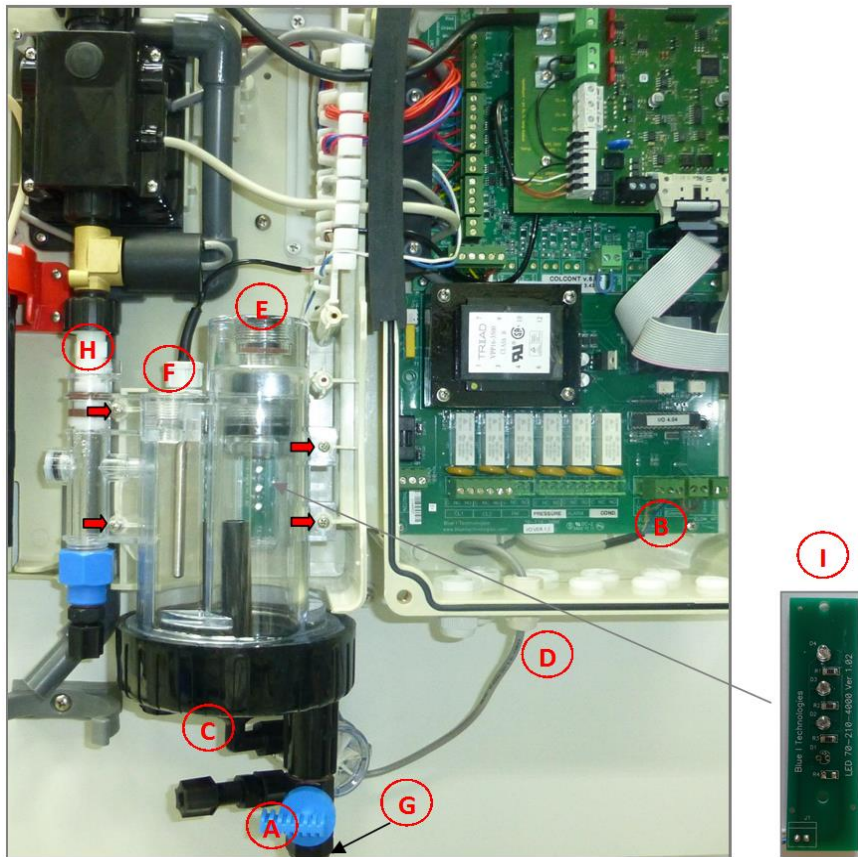
Blue I's new A11 Sampling Cell is designed for higher durability and flow geometry. The acrylic (PMMA) body has been optimized for a range of water quality sensors. It provides the perfect operating conditions for high-precision measuring at a constant flow rate. It holds up to 3 electrodes, with a built-in flow rate indicator and temperature sensor.

This upgrade kit provides you with the Acrylic Sampling Cell A11 with all connectors and the inductive proximity sensor in place, so that it is ready to be installed in just a few simple steps.

Carefully follow the instructions below for installation with the [HYDROGUARD® HG-702](#), [HYDROGUARD® HG-302](#) and their [TurbiPlus](#) versions to ensure consistent premium measurement performance.



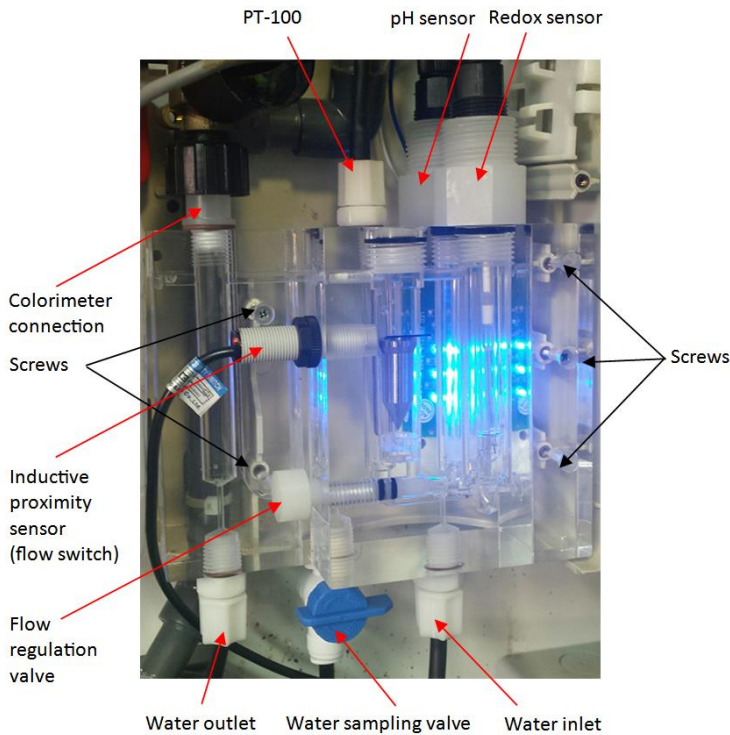
Remove Existing Sampling Cell



1. Disconnect the analyzer from the source of electricity.
2. Close the sampling cell water inlet valve and the filter inlet valve if there is a filter.
3. Drain the water from the sampling cell by opening the drainage valve (A).
4. Flow switch: The new A11 Sampling Cell is supplied with an upgraded flow switch to replace this one. Disconnect the flow switch electronic cable (B) and unscrew the flow switch connection to the sampling cell (C). Unthread the electronic cable through the bottom of the electronics case (D). The flow switch can be discarded.
5. Electrodes: Unscrew the electrode and PT-100 connectors on the sampling cell (E and F). Remove the electrodes and keep on the side to reinstall with the new sampling cell. If there will be a delay of over 2 hours before they will be reactivated, preserve them by placing in a cup of water according to the instructions for each electrode.
6. Connections: If there is a drain pipe connected to the sampling cell (G), unscrew to disconnect.
7. Unscrew the connection with the colorimeter cell (H).
8. To remove the sampling cell, remove the screws holding it in place (marked with arrows).
9. LED lights: The panel of blue LED lights attached to the back of the sampling cell (I) must be removed for use with the new A11 Sampling Cell. Disconnect the panel of blue LED lights by unscrewing the two screws that hold it in place (Keep the screws for reattaching with the replacement sampling cell.)

Installing the new A11 Sampling Cell

Follow these instructions and below illustration to install the A11 Sampling Cell.

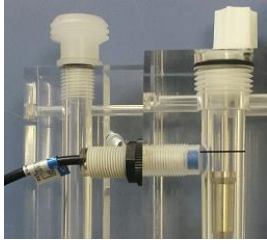


1. LED lights: Attach the panel of blue LED lights to the back panel of the analyzer case, beneath the colorimeter cell and in line with the bottom of the four screw bases (see illustration below). First mark where the top of the LED panel will be. Hold the panel in place and drive the two screws into the back panel to secure. Be careful not to overtighten as this could crack the plastic and the panel.



2. Screw the new sampling cell into place over the LED lights with five screws.
3. If you are using a drain pipe, reconnect at the water outlet marked in the illustration above.
4. Reconnect the PT-100 cable.

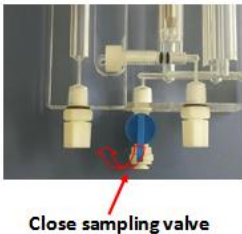
- The inductive proximity sensor (flow switch) is included in the A11 Sampling Cell kit. Connect by screwing all the way in until it meets the inner wall of the sampling cell. Secure in place with the black nut.



- Place the electrodes into the appropriate slots in the sampling cell and reconnect to the system with the correct connectors (see illustration).



- Ensure that the water sampling valve on the new sampling cell is closed (should be at a 90° angle to the sampling cell).



- Connect the sampling cell to the colorimeter (see marked in the illustration above).
- Open the sampling cell water inlet valve, and the filter inlet valve if there is a filter. (It is recommended that the HYDROGUARD analyzer be operated with a pre-filter so as to eliminate particles that could damage the measuring cells and impede accurate measurement. Ask your distributor for details.)
- Reconnect the analyzer to the source of electricity.

Maintenance for the new A11 Sampling Cell

All of Blue I Water Technologies' sampling cells, including the new Sampling Cell A11, should be periodically cleaned with a cleansing solution provided by Blue I Water Technologies. The kit includes one bottle of the solution - please refer to the cleaning and safety instructions. (To purchase additional supplies of the cleansing solution, contact your distributor.)



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