

REPLACEMENT OF THE SENSOR-CUBE MEASURING-CELL

Follow the next steps to replace the pH cell of an MS01 sensor cube, the chlorine cell of an MS02 sensor cube or the ORP cell of an MS04 sensor cube.

Step 1: Prepare the necessary equipment

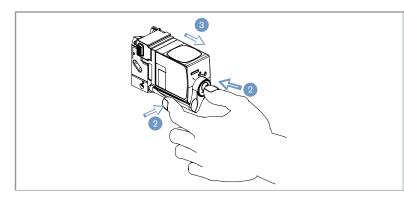
- a clean and dry place to work,
- absorbing paper,
- a syringe with a round tip of 2 mm,
- a 2.5 mm hexagonal key,
- an earthing wristband,
- a dry and clean cloth or a cotton swab,
- one of the following set of spare parts. See <u>Tab. 1</u>.

Tab. 1: Spare-part sets

Set of spare parts	Article number
1 pH measuring cell	568038
1 black seal	
1 rubber elastomer	
1 chlorine measuring cell	568040
1 black seal	
1 rubber elastomer	
1 ORP measuring cell	568039
1 black seal	
1 rubber elastomer	

Step 2: Remove the sensor cube from the backplane

- → Make sure you are working in a dry and clean place.
- → Before removing the last sensor cube from its backplane, stop the circulation of the fluid in the backplane to avoid liquid hammers in the system.



- 1. Prepare some absorbing paper.
- 2. Press the sensor-cube push-button and turn the bayonet lever to the right in the unlocked position ().
- 3. Pull the sensor cube and remove it from the backplane.
- Place the sensor cube on absorbing paper.



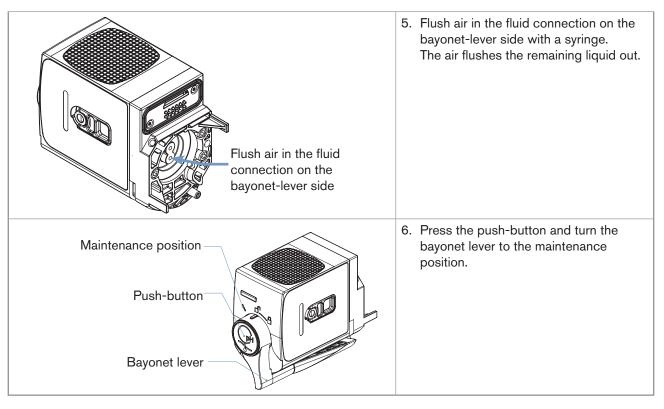


Fig. 1: Removing the sensor cube from the backplane

Step 3: Remove the measuring cell

→ Make sure you are working in a dry and clean place.

NOTE

Elements / Components sensitive to electrostatic discharges

- ► The product contains electronic components that are sensitive to electrostatic discharges. They may be damaged if they are touched by an electrostatically charged person or object. In the worst case scenario, these components are instantly destroyed or disabled as soon as they are activated.
- ► To minimise or even avoid any damage caused by an electrostatic discharge, take all the precautions described in the EN 61340-5-1 norm.





Typ MS01 / MS02 / MS04

Service instructions -Instructions de service après-vente 1907/00_EU-ML_00571250

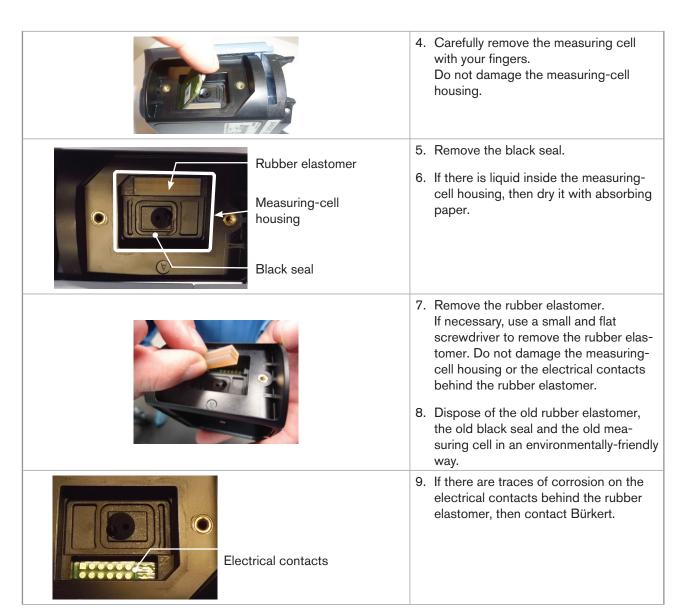


Fig. 2: Removing the measuring cell



Step 4: Replace the measuring cell

- → Make sure you are working in a dry and clean place.
- → To handle the measuring cell or any electrical component, wear an earthing wristband that is connected to the earth.
- \rightarrow Make sure you have the correct measuring cell. See <u>Tab. 1</u>.

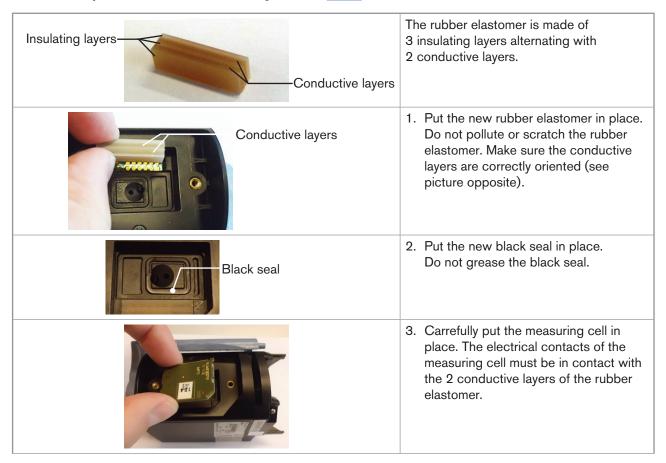


Fig. 3: Replacement of the rubber elastomer, the black seal and the measuring cell in the sensor cube

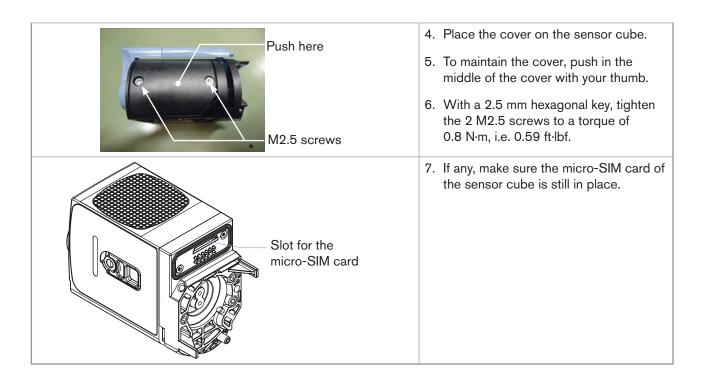
Step 5: Screw the cover





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Step 6: Mount the sensor cube on a sensor-cube backplane

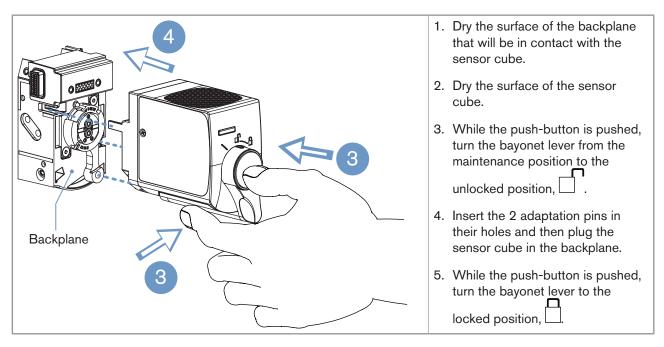


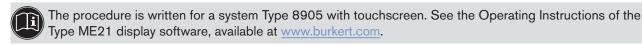
Fig. 4: Mounting a sensor cube on the backplane of the system



Step 7: Do the adjustment of the sensor cube

After the replacement of the measuring cell, the status LED of the sensor cube can have the following colors:

- GREEN: the sensor cube is working properly.
- → Calibrate the sensor cube. Refer to the Operating Instructions of the related sensor cube.
- BLUE: a maintenance operation is due. Do the following:



- 1. Log in as Advanced User or as Installer
- 2. To display the generated messages, tap
- 3. If the message Pair cell with sensor in maintenance menu is displayed, then go to the Maintenance menu.

If another message is diplayed, then contact Bürkert.

- Select Sensor cell pairing.
 The message Do you want to pair cell with sensor? is displayed.
- To validate, tap Next.
 The message Device restarting... is displayed.
- To validate, tap Finish. The sensor cube restart.
- 7. If the status LED of the sensor cube is GREEN, then calibrate the sensor cube. Refer to the Operating Instructions of the related sensor cube.
 - The new sensor cube is operational.

If the status LED of the sensor cube is NOT GREEN, then contact Bürkert.