CHLORINE PROBE MAINTENANCE

Amperometric Chlorine / Maintenance steps

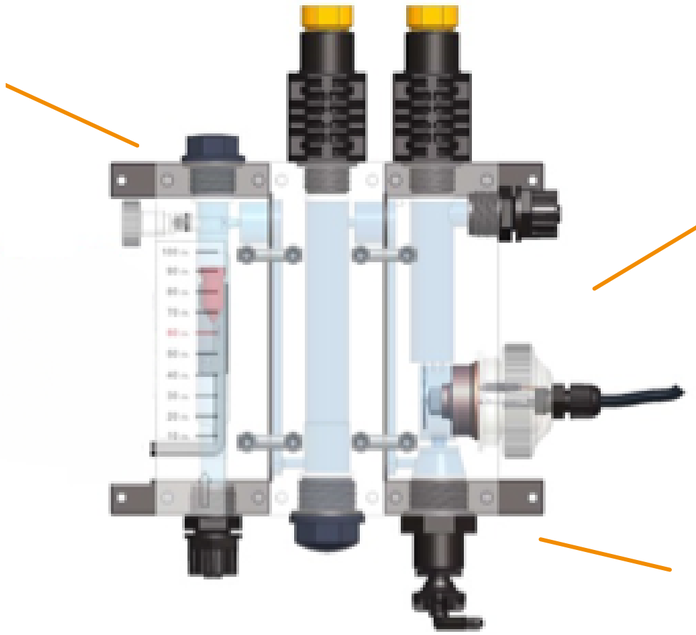


MAINTENANCE & TROUBLESHOOTING: CONTROL PANELS

Copper-Platinum Free Chlorine sensor cleaning

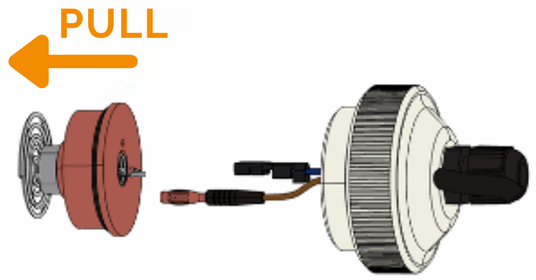
Open Amperometric Cells

Step 1:
Close the faucet to stop the flow of water inside the probe holder



Step 2:
Open the tapping faucet in order to empty completely the measuring chamber.

Step 3:
Loosen the cable gland completely, and carefully unscrew the Cu/Pt electrode support.
Be careful not to drop the glass spheres contained in the chamber during this operation.



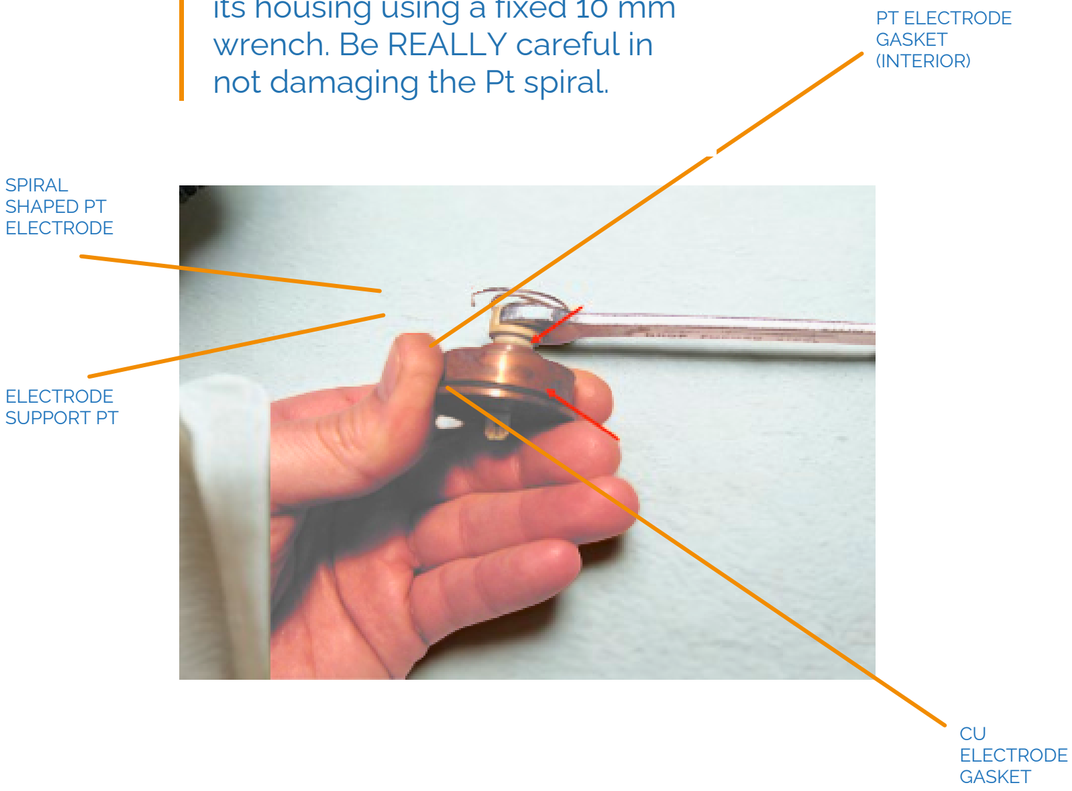
Step 4:
Pull the Cu/Pt electrode apart from the support until the connectors are visible.
The big connector is for the Cu electrode, while the small connector is for the Pt electrode (spiral).

Step 5:
Carefully disconnect the Cu and Pt electrodes connectors

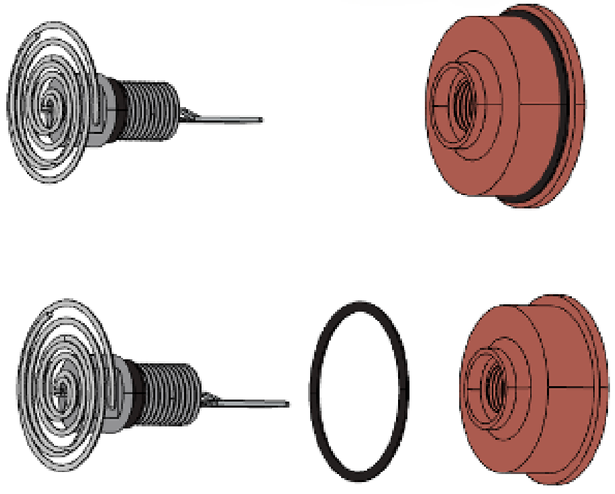
MAINTENANCE & TROUBLESHOOTING: CONTROL PANELS

Copper-Platinum Free Chlorine sensor cleaning

Step 6:
Unscrew the Pt electrode from its housing using a fixed 10 mm wrench. Be REALLY careful in not damaging the Pt spiral.



Step 7:
Remove the Cu electrode o-ring before cleaning.



MAINTENANCE & TROUBLESHOOTING: CONTROL PANELS

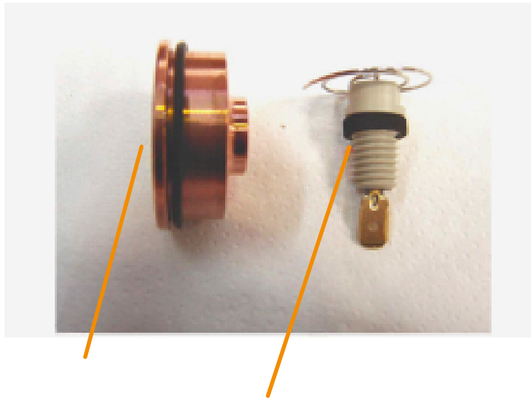
Copper-Platinum Free Chlorine sensor cleaning

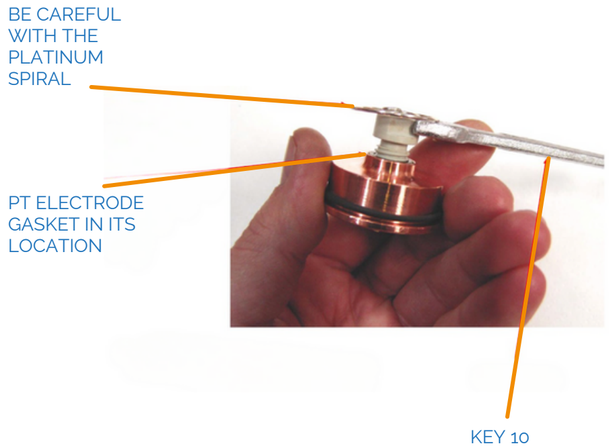


Step 8:
Clean the Cu electrode using the supplied brush or a fine sanding sheet. Brush until all the incrustation/scaling is removed from the surface. Then, using a cloth, remove any remaining particle.







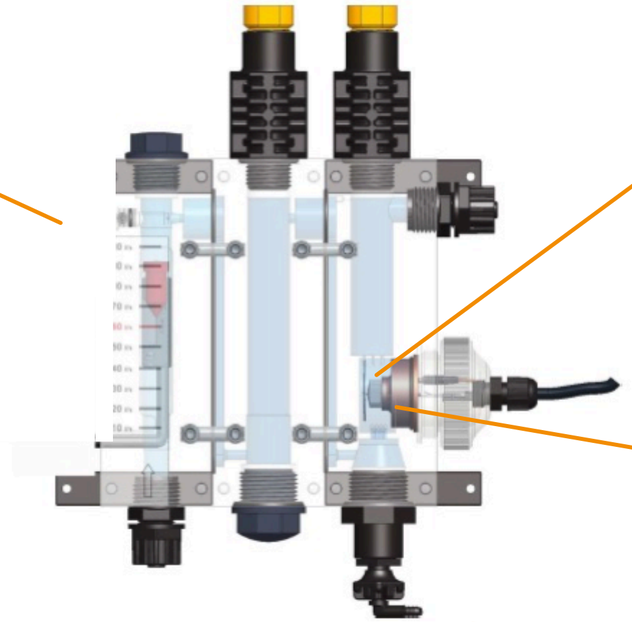


Step 9:
Insert the Cu and Pt electrodes o-ring in their position and screw back the Pt electrode in the Cu electrode housing always using a 10 mm wrench.



MAINTENANCE & TROUBLESHOOTING: CONTROL PANELS

Step 1:
Regulate the flow rate at 60 L/H



Step 4:
Check that the pyrex balls have a regular rotating movement,
Note: the number of pyrex balls is 100 pcs.

Step 3:
Check that the chlorine chamber is free of air bubbles and, if necessary, remove them through the flow regulator.

Step 2:
Open the tapping faucet to check that water came out

VERY IMPORTANT:

After installing the sensor in the Plexi Probe Holder wait at least 3 hours before making calibration, in order to allow the sensor to polarize.

MAINTENANCE & TROUBLESHOOTING: CONTROL PANELS

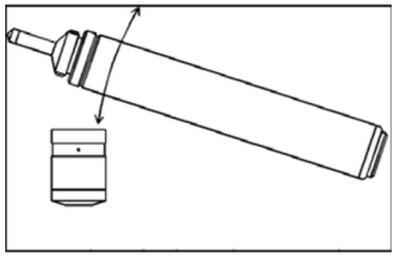
Sensor preparation and Start-up

Closed Amperometric Cells

Step 1:
Fill to the brim the membrane cap with the provided electrolyte.



Step 2:
Remove eventual air bubbles in the membrane cap by gently tapping the cap using the body of the sensor



Step 3:
Clean the electrode using the provided abrasive paper. NOTE: the electrode must be a little inclined on the abrasive paper and not perfectly vertical, in order not to remove the brown film that is on the extremity.



Step 4:
Assemble the sensor by inserting the body in the membrane cap and screwing it clockwise till it's correctly inserted. Excess electrolyte will overflow from the valve positioned in correspondence with the red arrow. In this case, you can clean by using simple water.



Step 5:
Move the second silicone gasket on top of the first one.

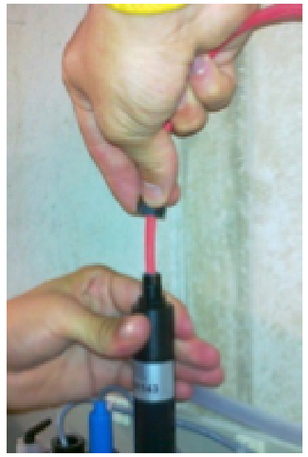


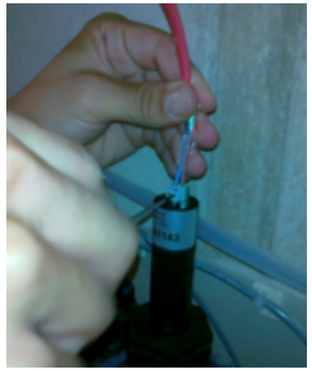
MAINTENANCE & TROUBLESHOOTING: CONTROL PANELS

Sensor preparation and Start-up

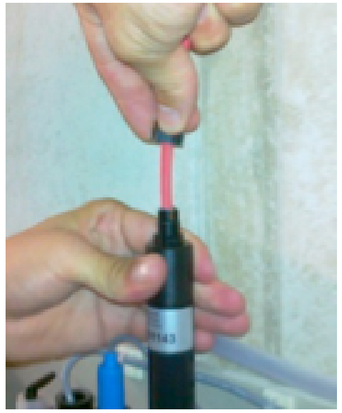
Closed Amperometric Cells

Step 6:
Insert the terminal cap into the cable through the PG7 connector, and fix the cable wires into the terminals. The recommended cable is:
4 mm diameter, 2 x 0,25 mm^2 wires.





Step 7:
Screw the terminal cap clockwise till it's correctly fixed on the body of the sensor



Step 8:
Insert the sensor in the tightening nut of the probe holder and then in the Plexi Probe Holder.



VERY IMPORTANT:

After installing the sensor in the Plexi Probe Holder wait at least 3 hours before making calibration, in order to allow the sensor to polarize.


INJECTA
the perfect dosing