

Commissioning / activation of the hydrogen electrode

Before first use HydroFlex has to be activated (24 h).



Hydrogen potential



Hydrogen source/
Hydrogen cartridge

After activation HydroFlex has to be stored in an electrolyte such as 1 mol/l HCl or 1 mol/l H₂SO₄.

Recommended runtime: 6 month

H⁺-sensitive Element:
Platinum mesh/Palladium
electrode in a PEEK sleeve

Before the first use the hydrogen electrode HydroFlex has to be activated thus the hydrogen production in the hydrogen generation cell is started. The arising hydrogen fills the PTFE-tube and leaks out of the platinum-palladium electrode where – according to the ions in the solution – a hydrogen potential sets. The hydrogen potential can be gripped on the gold-plated socket in the electrode's head. Once activated, the electrode works continuously for 6 months.

For the functioning of the electrode it is important to stick to the following instructions:



Provide a solidly standing beaker with distilled or deionized water.



Remove the protective cap from the electrode carefully.



On top of the electrode head turn the runtime clockwise to position 1 with a 3 mm hex screw driver. That is corresponding to one month.



Place Hydroflex for 24 hours in the water. At least half of the shaft should be surrounded by water.



Important: Mark the activation month and year on the enclosed sticker and attach it to the HydroFlex.



After 24 hours adjust the runtime to 6 months. For correct use do not change this. The Hydrogen electrode is ready for your measurements.