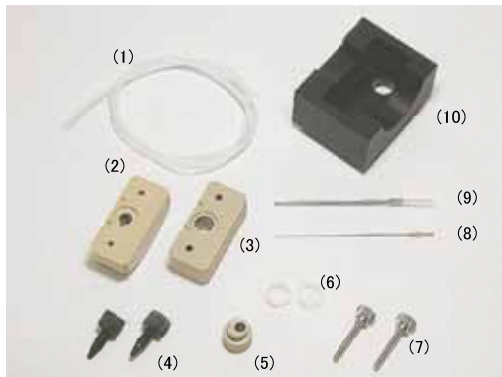


012026 EQCM Flow cell Kit

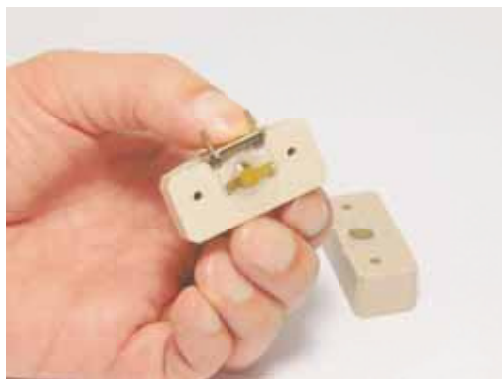


- (1) Teflon tube 1 m
- (2) EQCM PEEK flow cell
- (3) QCM PEEK cell
- (4) Dynaseal PEEK 2 pcs
- (5) QCM PEEK cap
- (6) Silicon O-ring
- (7) Screw 2 pcs
- (8) Pt counter electrode for QCM
- (9) Pt counter electrode for EQCM
- (10) QCM flow cell holder

1. Put Silicon O-rings (6) on an EQCM PEEK cell (2) and a QCM PEEK cell (3).



2. Set a Quartz crystal (purchased separately) onto the EQCM PEEK cell and adjust its metal part to be placed on the center of the O-ring. (See a photo left)



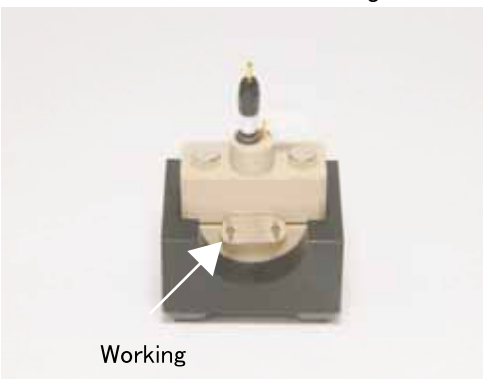
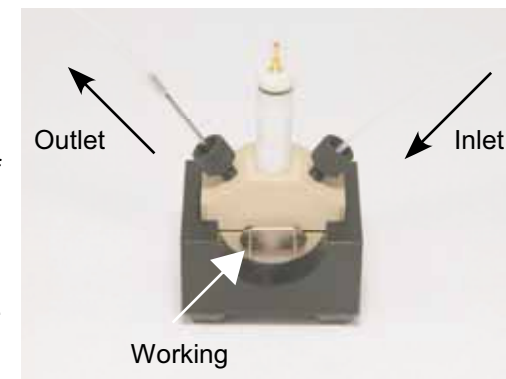
3. Put the QCM PEEK cell on the EQCM PEEK cell and screw them up carefully. Please note that screwing too tight may damage the Quartz crystal.

How to use in EQCM mode:
A hole for screw type reference electrode (purchased separately) is centered.
A Teflon tubing is to be connected with a Dynaseal (4) after cut by appropriate length.
An EQCM counter electrode (9) should be set on the left with another Dynaseal when you can see the Quartz crystal at the front of the cell. (See a photo right)

--NOTICE--

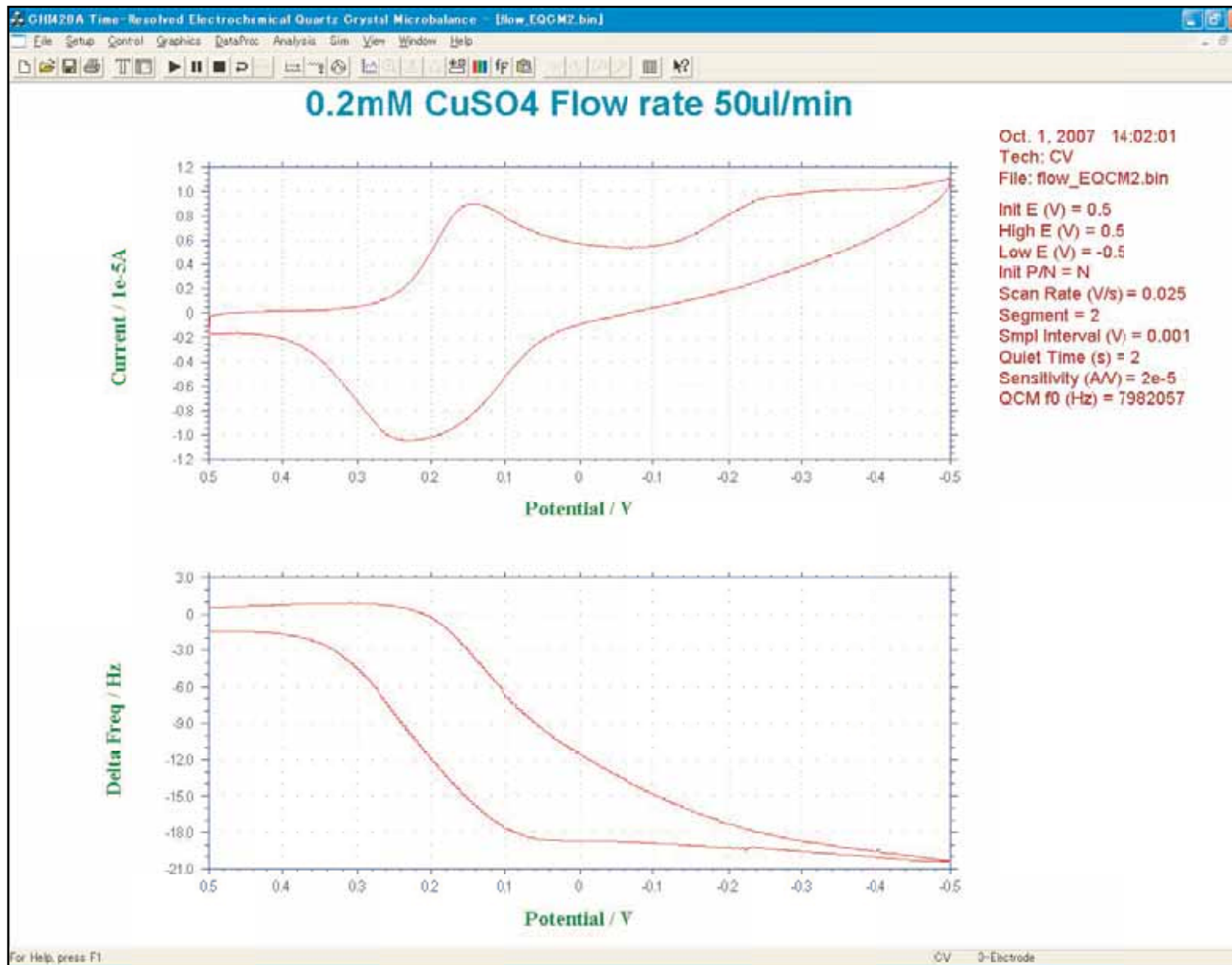
Please give sufficient caution to solution sending rate to avoid any damage to the quartz crystal. Air bubbles may be a cause of measurable noise. Those bubbles can be removed by following procedure:

- I . Remove a reference electrode
- II . Supply sufficient sample solution into the cell
- III. Set the reference electrode again



How to use in QCM mode:
Cut a Pt counter electrode (8) not to reach the Quartz crystal. Set the counter electrode and a reference electrode (purchased separately) to the cell. When users do measurements in this mode, the front side of the cell (terminals protruding side) should be put on half-rounded side of a cell holder (10).





The example of measurement
 Sample: 0.2 mM CuSO₄ Flowrate:50 μl/ml
 ALS/Chi Model420A EQCM Analyzer