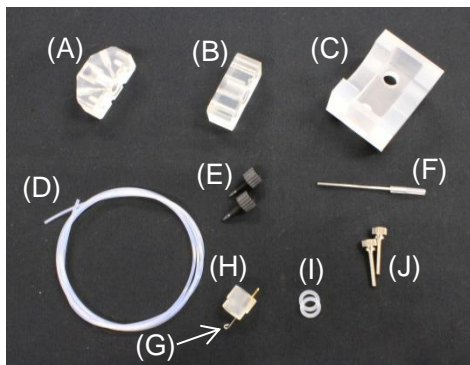
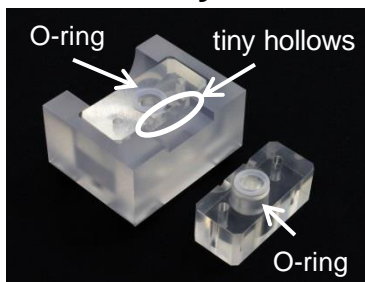


013487 EQCMT Flow cell kit

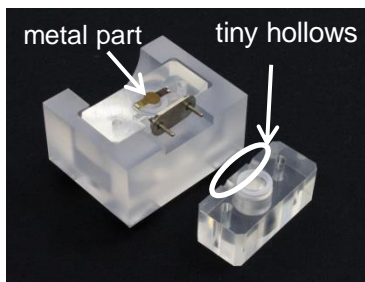


Contents:	
(A) EQCM flow cell (PMP)	1pc
(B) EQCM cell (PMP)	1pc
(C) Cell holder (PMP)	1pc
(D) Teflon tube	1 m
(E) Fitting (PEEK)	2pcs
(F) Stainless pipe counter electrode for flow EQCM	1pc
(G) Pt counter electrode for EQCM	1pc
(H) PMP cap	1pc
(I) Silicon O-ring	2pcs
(J) Fixing screw (PMP :poly methylpentene resin.)	2pcs

• Assembly



1. Put the EQCM flow cell (A) into the cell holder (C) by facing the side of two tiny hollows (in half cylinder shape) of A to the side of small dent (in shallow step shape) of C. Set the silicon O-rings (I) into the center hole of EQCM flow cell (A) and EQCM cell (B) respectively.

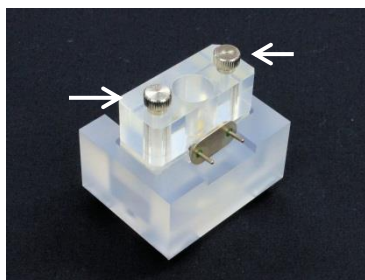


2. Put the Metal part of the quartz crystal oscillator (optional) to the center of the O-ring (I) on the EQCM flow cell (A). Put on the EQCM cell (B) carefully with making its tiny hollows face same direction. Check the terminal pin connecting with the metal part that touch the sample solution.

Quartz crystal (option) :
 013610 Quartz crystal Au (5 pcs)
 013447 Quartz crystal Pt (3 pcs)

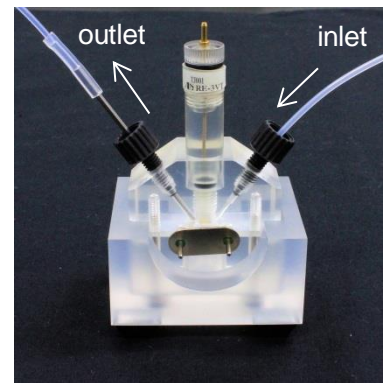
3. Fix two cells (A&B) with two fixing screws (J). Gradually tight two screws in turn with nice balance.

Warning: The excessive screwing may possibly cause the Quartz crystal broken.



• Applications

Set the terminal pin of the Quartz crystal to the semicircular portion of the holder (C).

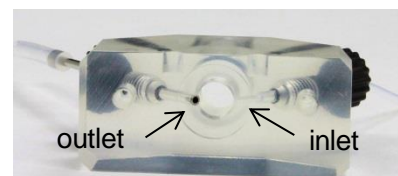


• EQCM flow cell mode:

Set a reference electrode (optional) to EQCM flow cell (A). Insert the stainless pipe (F) and Teflon tube (D) into the fittings (E), till the both tips are exposed a little from fitting(E). Set the Teflon tube (D) to inlet of the EQCM flow cell(A), and set the stainless pipe (F) to the outlet. Connect terminal pin that contact the metal part that touch the sample solution of the Quartz crystal to the oscillator working lead.

CAUTION

1. Beware of the flow rate. Excessive flow rate may cause the crystal oscillator to be broken.
2. Any air bubbles in cell will induce a noise in experiment. In order to suppress the bubbles generation, it is better way to fill the cell (A) with analyte solution beforehand.



Reference electrode (optional):
 013488 RE-3VT Reference electrode screw type (Ag/AgCl)
 013489 RE-7VT Non Aqueous reference electrode screw type (Ag/Ag+)



• EQCM cell mode:

Set Pt counter electrode (G) and a reference electrode (option) to PMP cap (H), and insert the cap to EQCM cell (B). Be careful the electrodes not to touch the Quartz crystal. Connect terminal pin that contact the metal part that touch the sample solution of the Quartz crystal to the oscillator working lead.

Reference electrode (option) :
 012167 RE-1B (for aqueous)
 012170 RE-7 (for non aqueous)

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