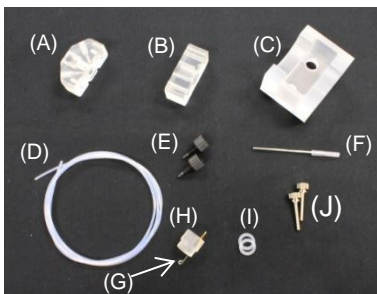


# 013487 EQCMT Flow cell kit



## Contents:

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

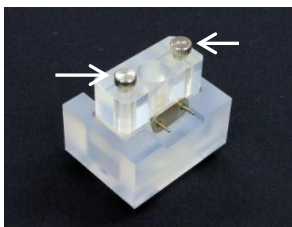
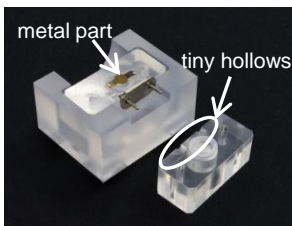
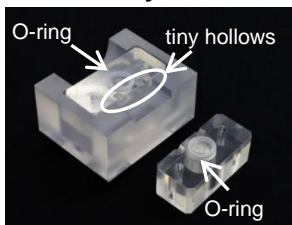
(PMP : Polymethylpentene)

## 【Note】

- Use flow cells at room temperature and atmospheric pressure.
- Wash the flow cell with pure water immediately after use.
- When using with 014052 RE-61VT and 013694 RE-61AP, avoid the below conditions.

1. High concentrated alkaline solution
2. Long time application

## • Assembly



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

2. Put the Metal part of the quartz crystal oscillator (option) 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 touches the sample solution.

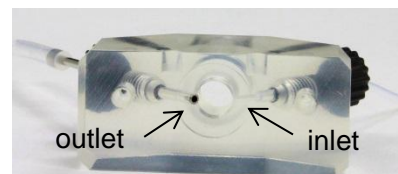
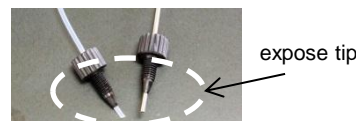
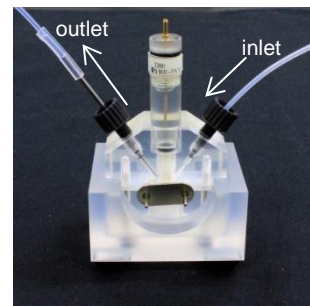
Quartz crystal (option) :  
013610 Quartz crystal Au (5 pcs)  
013447 Quartz crystal Pt (3 pcs)

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

**【CAUTION】** Excessive screwing may cause the quartz crystal to be 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 (option) to an EQCM flow cell(A). Insert a stainless pipe(F) and a Teflon tube(D) into their respective fittings(E) until both tips are exposed a little from fittings(E). Set the Teflon tube(D) to the inlet of the EQCM flow cell(A), and set the stainless pipe(F) to the outlet. Connect the terminal pin that contacts the metal part that touches the sample solution of the quartz crystal to an oscillator working lead.

## 【CAUTION】

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

Reference electrode (option):

- 014051 RE-3VT Reference electrode screw type (Ag/AgCl)
- 013850 RE-7VT Non Aqueous reference electrode screw type
- 014052 RE-61VT Reference electrode screw type for alkaline solution

## • EQCM cell mode:

Set a Pt counter electrode(G) and a reference electrode (option) to a PMP cap(H), and insert the cap into an EQCM cell(B). Make sure that the electrodes do not touch the quartz crystal. Connect the terminal pin that contacts the metal part that touches the sample solution of the quartz crystal to an oscillator working lead.

Reference electrode (option) :

- 012167 RE-1B Reference electrode (Ag/AgCl)
- 013848 RE-7N Non Aqueous reference electrode
- 013694 RE-61AP Reference electrode for alkaline solution

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