

Internal resistance of battery cell

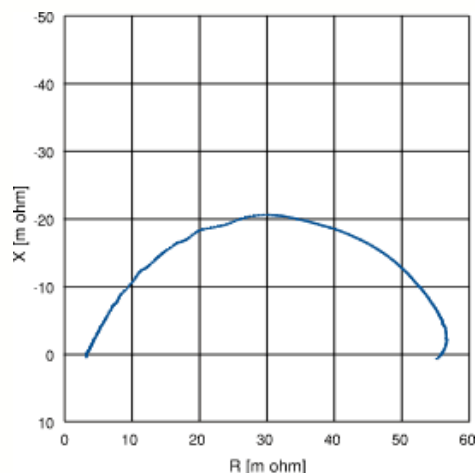
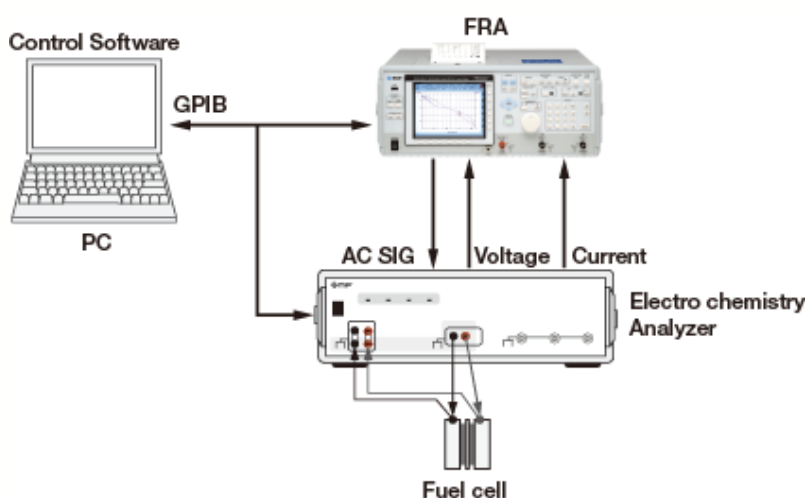
Key words

- ▶ Battery cell
- ▶ Fuel cell
- ▶ Electric double-layer capacitor

Frequency Response Analyzer
FRA5087 / FRA5097

OUTLINE

As an evaluation method of the battery, there is the AC impedance measurement. By measuring the magnitude and phase shift of the impedance, a variety of state of the electrode and reaction can be measured.



▲ Cole-Cole Plot

POINT

- Since the removal of the DC, the detailed impedance can be measured at any of the output current of the battery.
- Impedance can be measured from 0.1mHz that is close to DC.
- Cole-Cole analysis function available.
- The parameters of the equivalent circuit can be calculated from the measured results, optional software required.

Frequency Response Analyzer

FRA5087 / FRA5097



- Frequency range 0.1mHz to 10MHz / 15MHz
- Gain accuracy : ± 0.05 dB
- Phase accuracy : $\pm 0.3^\circ$
- Dynamic range : 140 dB
- Isolation: 250Vrms (INPUT-OUTPUT)
- Auto ranging