

BT-710 IN-PLANE CONDUCTIVITY CELL

For use with the
740 Membrane Test System

The BT-710 Conductivity Cell is used with the 740 MTS to measure in-plane membrane resistance and ionic conductivity

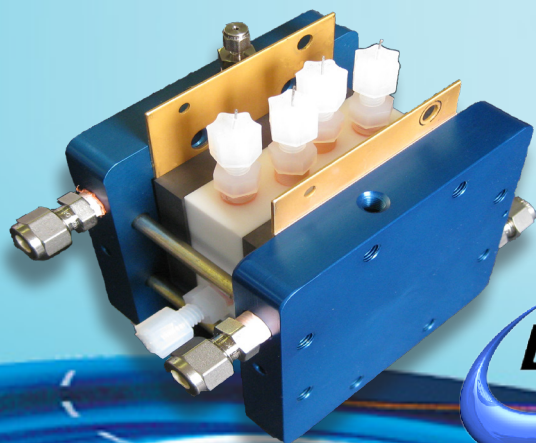
The BT-710 features

- Designed for use with the 740 MTS
- Test bare membrane samples - fabrication of a catalyzed sample (CCM or MEA) is not required
- True 4-electrode technique
- Small sample size - 25 mm x 3 mm
- Temperatures up to 180 °C
- Simple DC measurement and data interpretation
- Compare in-plane and through-plane conductivity for materials anisotropy
- Valuable time and money can be saved by analyzing ion charge transport resistance prior to catalyzation of the membrane and assembly of the MEA into a fuel cell

The advantage of the 4-electrode measurement is the ability to measure resistance due only to charge transport while excluding interfacial and charge transfer resistances. By measuring only the resistance due to ion transport, accurate assessment of in-plane membrane conductivity can be made.

OPTIONS





BT-11x Membrane Conductivity Hardware

The BT-11x features

BT-11x Membrane Conductivity Hardware:

Use the BekkTech Conductivity Cell or Clamp to obtain in-plane ionic conductivity data on your bare membrane sample.

BT-110 Conductivity Clamp:

The Conductivity Clamp is designed to be used in a humidity chamber or in a beaker. The advantage of the 4-electrode measurement is the ability to measure resistance due only to charge transport while excluding interfacial and charge transfer resistances. By measuring only the resistance due to ion transport, accurate assessment of in-plane membrane conductivity can be made. Valuable time and money can be saved by analyzing ion charge transport resistance prior to catalyzation of the membrane and assembly of the MEA into a fuel cell.

BT-112 Conductivity Cell:

Assemble your bare membrane sample into the Conductivity Cell. The Conductivity Cell is then assembled into your Scribner Associates or Fuel Cell Technologies, Inc. fuel cell hardware. Connect the fuel cell hardware to your test stand to control the temperature, humidity, gas type, and pressure of the membrane sample under test.

BT-115 Conductivity Cell:

Assemble your bare membrane sample into the Conductivity Cell. The Conductivity Cell is then assembled into your ElectroChem, Inc. fuel cell hardware. Connect the fuel cell hardware to your test stand to control the temperature, humidity, gas type, and pressure of the membrane sample under test.

