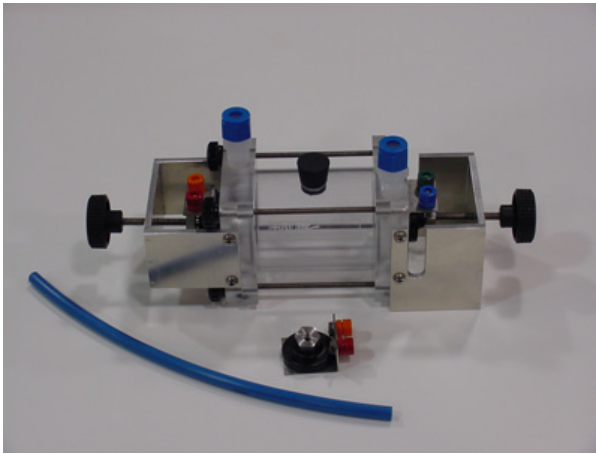


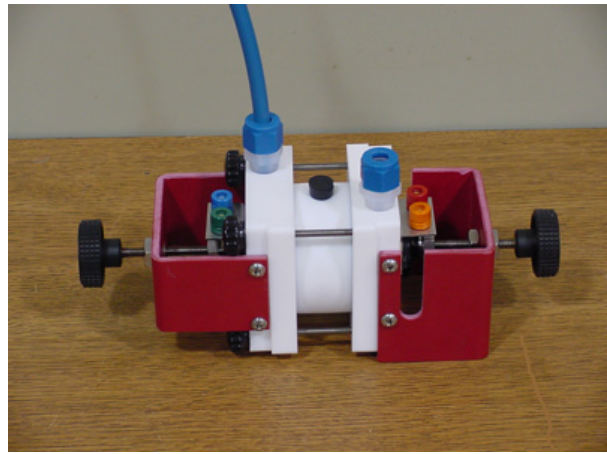
## MultiPurpose Corrosion Cell

# INTRODUCTION

The MPM Technologies, Inc. MultiPurpose Corrosion Cell (MC<sup>2</sup>) is very versatile and is extremely easy to use. The MPM MC<sup>2</sup> can be used with all commercially available electrochemical measurement systems and can accommodate a wide variety of flat specimen geometries. The specific applications and features are discussed below.



*MPM MultiPurpose Corrosion Cell 80° C Maximum Temperature (with acrylic cell ends and body)*



*MPM MultiPurpose Corrosion Cell 260° C Maximum Temperature (with Teflon cell ends and body)*

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# APPLICATIONS

The MC<sup>2</sup> can be used for nearly any electrochemical experiment including the following:

- Polarization
- Galvanic Corrosion
- Cyclic Voltametry
- Electrochemical Impedance Spectroscopy
- Electrochemical Noise Measurement

All of the above experiments can be performed in de-aerated conditions.

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## **CELL FEATURES**

The MPM MC<sup>2</sup> design incorporates many innovative features which combine to produce a versatile and easy to use product. Some of the key features are listed below:

- Crevice free measurements achieved through the optional MPM masking or high temperature coating material
- Integrated Luggin probe design minimizes uncompensated solution resistance
- Solution temperatures up to 80°C with acrylic cell body and ends
- Solution temperatures up to 260°C with Teflon cell body and ends
- Robust color-coded electrical connection
- Fittings provided for de-aeration
- Sample sizes up to 2 cm thick by any desired width can be used
- Sample test areas with diameters of up to 1.9 cm can be tested
- Drain line for safe solution disposal
- Fast/easy disassembly for cleaning
- Detachable counter electrodes
- Standard cells are constructed from acrylic and have a polycarbonate body
- Standard cell volumes range from 70 ml to 500 ml

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## **CUSTOM CELLS**

MPM also offers custom design and manufacturing services. Cells can be constructed with acrylic, polypropylene, or Teflon ends and any desired material for the body including glass. Various cell geometries can be accommodated. We will be happy to provide a price quote for a custom cell.

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## **FOR MORE INFORMATION**

If you would like a price quotation or additional information concerning MPM's services or products, please contact us at the below listed address:

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