## Polymer Modulator™ Microrheometers



MAT's Polymer Modulator<sup>TM</sup> Microrheometers are convenient tools for combining spectroscopic measurements with rheological perturbations. The molecular origins of macroscopic properties are probed using the time dependence of spectral changes in polymer samples.





- Variable waveforms
- Quartz timing accuracy
- Time- or phase-resolved data
- Rack mountable electronics
- Thermal stability
- Compact size
- Standard BNC connectors
- Limited lifetime warranty

Each model includes an electromechanical head, to hold and modulate the sample, and an electronic power unit to amplify the input signal, to amplify the stress and strain output signals. In addition, the TC- series includes insulated shells and temperature control maintain units to sample temperatures between -100 and 200°C.



## **PM-100**

The basic PM-100 model incorporates stress and strain measurements with arbitrary waveform input. Sample temperature tracks the ambient environment of the spectrometer or experiment box in which the Polymer Modulator<sup>TM</sup> instrument is located.



1.9 cm

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22.3 cm

16.2 cm

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