

# ***MFI2 Melt Flow Indexer:***



*Dynisco combines technology with affordability in the MFI2 Melt Flow Indexer. This simple, yet sophisticated extrusion plastometer provides basic melt flow measurements for thermoplastics. The MFI2 is perfect for determining extrusion properties, checking incoming materials and characterizing new polymers. On-board computer control provides precise testing to international specifications. Dynamic new menu driven software introduces maximum operator efficiency and test accuracy. The MFI2's memory is capable of storing test conditions and data for up to 50 tests. Testing conveniences include: digital display of set-up parameters, temperature and test results; quality control limit settings; test setting defaults for quick, convenient start-up; precision electro-optical automatic timing with precisely adjustable piston travel; and automatic calculation of rheological data. Sophisticated options packages make the MFI2 easily expandable to incorporate many more advanced system features.*

## ***User Responsive Design Facilitates Quick Test Set-Up, Results, Data Analysis...***

### ***Provides On-Board Computer for Maximum Performance***

*Menu driven software reduces test complexity with simple, step-by-step prompts and stored test method set-ups.*

### ***Eliminates Time Consuming Scrolling in Test Set-up***

*Sealed 29-key alphanumeric keyboard features a full word processing style editor.*

### ***Features 24 Character, Full 2-Line LCD Display***

*Easy to read display prompts the operator through set-up and automatic testing procedure', automatic report generation with optional printer.*

### ***Displays Test Results Instantaneously***

*Automatic calculation of flow rate is displayed on the MFI2 control panel, automatic report generation with optional printer.*

### ***Time Saving Prompts***

*Audible alarm alerts operator of test status at conclusion of preheat and user-selected intervals for manual extrudate cuts.*

### ***Incorporates Smart, Safe Power***

*Built-in back up system keeps internal clock and computer memory safe from power failure and eliminates the need to reset clock.*

### ***Self Diagnostic Control***

*A complete system check is performed at each start-up.*

### ***Easily Expandable System***

*Its flexible design makes the MFI2 easy to upgrade through options packages without the expense of buying a new model.*

### ***Quick Printing, Push Button Reports***

*Instant printouts of test set-up conditions, results and statistical analyses when hooked up to a laser or dot matrix printer. A standard PC parallel printer port is supplied with the unit for downloading data.*

## ***Advancements in Test Control, Repeatability***

### ***Precise Temperature Control***

*The MFI2 PID controller and multi-zoned heater precisely control the test set point temperature within  $\pm 0.1^{\circ}\text{C}$ .*

### ***Programmable Optical Encoder***

*Eliminates cumbersome, time-consuming mechanical flag setting and calibration procedures.*

### ***Microprocessor Controlled, Motorized Weight Lift System***

*The optional weight lift system uniformly applies weight to the piston following user-selected preheat time. This system permits flow rate determinations under two different loads in a single test.*

### ***Multiplexing Capabilities***

*Up to 32 instruments may be linked to a single computer using the optional MFI2 multiplexing software.*

### ***One Touch Calibration***

*Utilizing the optical encoder reduces awkward calibration of piston travel to simple push button operation.*

### ***Ultimate Accuracy in Piston Travel Settings***

*Precisely adjustable piston travel permits precise keyboard programming of multiple cuts for enhanced sample analysis.*

### ***Complete Rheological Properties Analysis***

*Viscosity, shear stress and shear rate are automatically calculated and displayed at the conclusion of each test without requiring an additional computer. Powerful software provides method A to B conversions calculations for melt density and flow rate in the same test run (ASTM D 1238 and ISO 1133).*

### ***Easy Test Clean-Up***

*The MFI2's orifice can be easily removed so that the barrel can be cleaned of any remaining residue at the completion of each test sequence. A complete set of testing and clean-up tools are supplied with the instrument.*