

LMI5500 SERIES

MELT FLOW INDEXER



VERSATILE

Specifically designed for the thermoplastics resin industry, the LMI5500 has an array of features and benefits that range from ground-breaking accuracy to a unified software platform between all laboratory and online production equipment.

SOPHISTICATED SOFTWARE

The LMI5500 brings a new level of convenience with its easy to clean removable inspection plate, increased access for sample cutting, and revamped intuitive touchscreen. Processors can obtain detailed analytics between lab and production data globally on a single dashboard with the Win10 IoT Core + Single Board Computer (SBC) platform with the integration of the Microsoft Cloud option.

REAL-TIME DISPLAY

The LMI is capable of delivering a wide range of data that includes not only melt flow rate, but also shear stress, shear rate, apparent viscosity, intrinsic viscosity and melt density, as well as testing conditions

FEATURES

- Gravitational correction
- Windows 10 lot touch screen native interface
- Built in WiFi and ethernet
- HDMI and multiple USB ports
- Direct digital scale USB interface for sample weighing
- Performance meets international standards: ASTM D1238 & D3364, ISO 1133-1 & ISO 1133-2, BS2782, DIN 53735, JIS K7210
- Melt Flow Rate to Intrinsic Viscosity correlation to PET
- automatic sample cutter for ease and consistency in sample cutting
- Ability to run and store a large volume of test data
- Increased access to the die for sample cutting with a strategically placed mirror to easily view the die and cutting area
- Supports multiple languages

LMI5500 SERIES OPTIONS	
DESCRIPTION	OPTIONAL FEATURES FOR SPECIAL REQUIREMENTS
Digital Encoder	The Digital Encoder provides a high precision measurement of piston displacement during Method A/B and B testing.
Dynisco IoT Cloud Console	Developed for processors to simply obtain detailed analytics and provides the ability to correlate laboratory and production rheological instruments for all devices globally on one single cloud dashboard and see any instrument around the world in real-time 24 hours a day, 7 days a week, 365 days a year.
Automatic Sample Cutter	Cuts samples automatically at defined cut times of Method A and Method A/B testing. Will also cut sample at end of pre-heat melt time of a test, regardless of method. Leads to more consistent sample cutting than by hand.

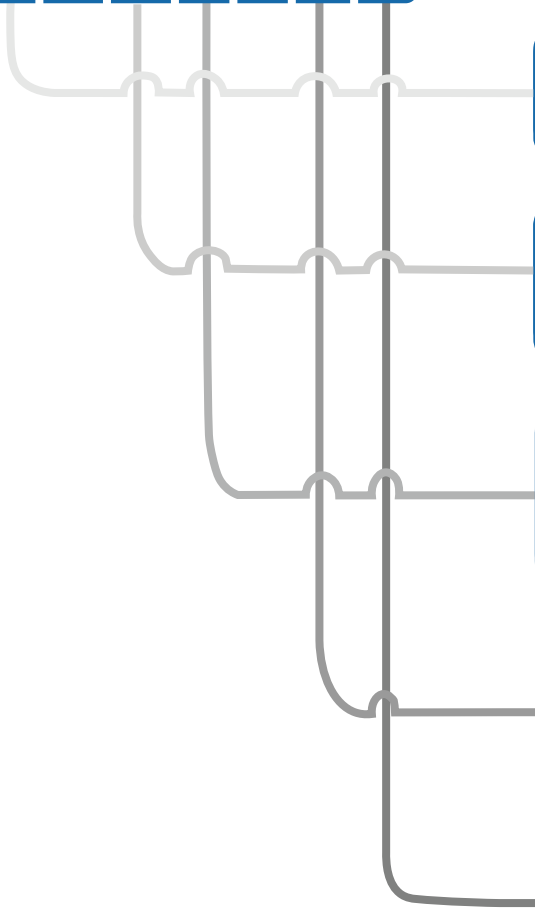
PERFORMANCE CHARACTERISTICS	
STANDARDS	ASTM D1238 & D3364, ISO 1133-1 & ISO 1133-2, BS2782, DIN 53735, JIS K7210
OPERATING TEMPERATURE	Ambient to 400°C
TEMPERATURE CONTROL	±0.1°C
TIMER ACCURACY	0.001 S
DIGITAL ENCODER ACCURACY	±0.025mm over 25.4
USER INTERFACE	<ul style="list-style-type: none"> • 7" Touch Screen • 130° Viewing Angle • 800 x 480 Screen Resolution • Capacitive Touch Sensing
WEIGHTS	Aluminum, Stainless or Plated Steel 0.325 to 31.6Kg
COMMUNICATION	USB x 4, PC Connectivity, Scale Interface, Printing and Flash Storage
DIMENSIONS	
OVERALL DIMENSIONS, BASE MODEL	13W x 21D x 20H in. (33W x 53D x 51H cm)
WEIGHT, BASE MODEL	47 lbs. (21.3 Kg)
SHIPPING WEIGHT, BASE MODEL WITH WEIGHTS	180 lbs. (81.8 Kg)
ELECTRICAL SPECIFICATIONS	
SYSTEM VOLTAGE	100-120Vac 50/60Hz or 220-240Vac 50/60Hz, 500Va, +5%, 1 single phase
POWER	500W max, 100W typical at set point



LMI5500 ORDERING GUIDE

CONFIGURE YOUR EXACT PRODUCT DESCRIPTION WITH THE TABLE BELOW.

LMFI55 X N X X N X X



VOLTAGE

1 = 100-120 Vac 50/60 Hz

2 = 220-240 Vac 50/60 Hz

DIGITAL ENCODER

N = Standard No Digital Encoder

E = Digital Encoder Installed

Note: Digital Encoder is required for Method A/B, B, C & D Testing

BARREL TYPE

N = Standard Tool Steel

H = Haynes 242 Lined Barrel Install

Note: Recommended for Corrosive Applications

AUTOMATIC SAMPLE CUTTER OPTION

N = No Automatic Sample Cutter

C = Automatic Sample Cutter Installed

Note: On High Melt Flow Rates or Extremely Hard Material Testing is Recommended

ENHANCED TEMPERATURE CONTROL

N = Standard ASTM1238 or 1133-1 or Similar

I = Certified & Tested for 1133-2 Requirements



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