



From lab to production,
providing a window into the process

SENSORS
INCORPORATED

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LMI5000 Series

Melt Flow Indexer

Setting the standard for evaluating polymer melt flow characteristics



LMI5000 Series



NEW! LMI5000 Series
Automatic Sample Cutter



LMI5000 Series with Weight
Management
System & Force Packer

The LMI is a cultivation of feedback from customers incorporating a series of key features and options: Color Touch-Screen Display incorporating a user friendly menu structure, USB communications, pneumatic weight lift system with stackable weights, a force packer, higher accuracy digital encoder, software and NEW! auto cutter option.

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

The addition and improvements of key attributes help alleviate some of the burden of running a melt index test from the technician and improves repeatability of the data.

Features

- Performance meets international standards: ASTM D1238 & D3364, ISO 1133, BS2782, DIN 53735, JIS K7210
- Semi-automated pneumatic weight lift option for all weight loads
- Ergonomic, stackable weights from .325 – 31.6 Kg for all LMI applications
- Automatic Sample Cutter for ease and consistency in sample cutting
- Force Packer option for consistent material packing
- USB connectivity for data storage, scale integration, networking and printing capabilities
- Melt Flow Rate to Intrinsic Viscosity correlation for PET
- 100 program storage capability when used with software option



LMI Series

Digital Encoder – The Digital encoder provides a high precision measurement of piston displacement during Method A/B and B tests.

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 cutting by hand.

Force Packer – The Force Packer is designed to apply a constant force to compress the sample once the operator has loaded the polymer sample. This constant force promotes a level of confidence by removing variability between operators.

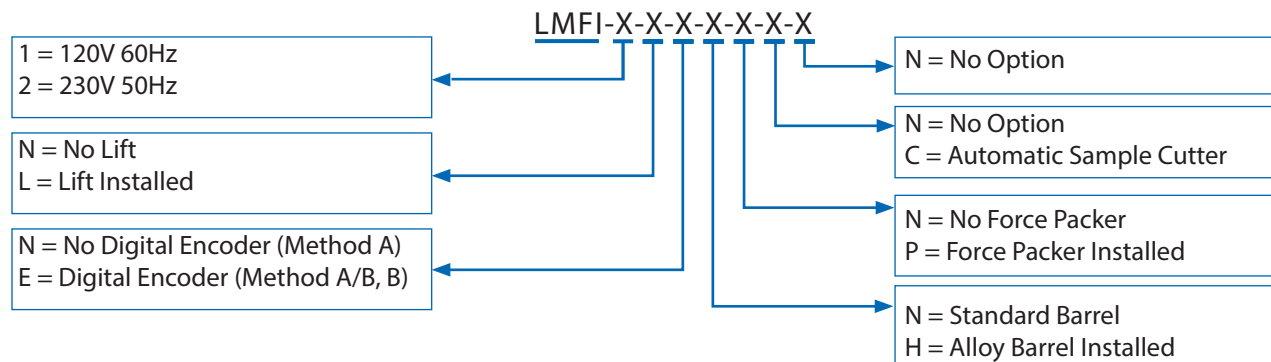
LaVA Suite Software – The redesigned software is capable of producing customized series of data including information about testing conditions, melt index values, shear stress, shear rate, viscosity, and apparent melt density. Through the use of this software option, these values are recorded and may be reported through various out-puts and formats.

Weight Lift System – The weight lift system allows for effortless weight application. By storing all of the weights in a stack above the LMI, selecting the weight load is as simple as moving the selector pin from one slot to the next eliminating the need for lifting weights manually. The lift system also offers a mid-position stop and hold feature for highly viscous materials.

Languages – Supports 12 languages: English, Chinese, Dutch, German, Polish, Japanese, Portuguese, Spanish, Italian, Czech, French, Russian.

PERFORMANCE CHARACTERISTICS	
Compliant Standards	ASTM D1238 & D3364, ISO 1133, BS2782, DIN 53735, JIS K7210
Operating Temperature	Ambient to 500 °C
Temperature Control	±0.1 °C
Timer Accuracy	0.001 second
Digital Encoder Accuracy	±0.025mm over 25.4 mm
User Interface	<ul style="list-style-type: none"> • 7" TFT Touch Screen • 130° Viewing Angle • 800 x 480 Screen resolution • WVGA Resistive Screen Type
Weights	Aluminum, Stainless and Plated Steel 0.325 to 31.6 Kg
Communication	USB x2, PC Connectivity, Scale Interface, Printing and Flash Storage
DIMENSIONS	
Overall Dimensions, Base Model	13W x 25D x 20H in. (33W x 64D x 51H cm)
Overall Dimensions, Base Model with Lift System	13W x 25D x 51H in. (33W x 64D x 132H cm)
Weight, Base Model	47 lbs. (21.3 Kg)
Weight, Base Model with Lift System	100 lbs. (45.4 Kg)
Shipping Weight, Base Model with Weights	180 lbs. (81.8 Kg)
Shipping Weight, Base Model with Lift System	360 lbs. (163.6 Kg)
ELECTRICAL SPECIFICATIONS	
System Voltage	100-120Vac 50/60Hz or 220-240Vac 50/60Hz, 500VA, + 5%, 1φ
Power	500W max., 100W typical at set point

Ordering Guide



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