

101 N. Alloy Dr.  
Fenton, MI 48430

**LMI**<sup>TM</sup>

Ph (810) 714-5811  
Fax (810) 714-5711

[CustomerService@lmicorporation.com](mailto:CustomerService@lmicorporation.com)

**L**INEAR **M**EASUREMENT **I**NSTRUMENTS, Corp.

Research, Development and Manufacturing of Precision Measuring Systems

---

# **LMI DIGI-PROBE**



## **USER GUIDE**

**LMI DIGI-PROBE**

# LMI Corporation

---

## SECTION 1: PRELIMINARY INFORMATION

### 1.1 Warranty Information

---

In the USA, this unit is warranted by LMI against defects in materials and workmanship for 1 year from date of original purchase. If you transfer ownership, the warranty is automatically transferred to the new owner and remains in effect for the original 1 year period. During the warranty period we will repair, or at our option, replace at no charge, product that proves to be defective, provided it is returned, shipping prepaid to LMI.

This warranty does not apply if the product has been damaged by accident or misuse or as a result of service or modification by other than LMI, or by hardware, software, interfacing or peripherals not provided by LMI.

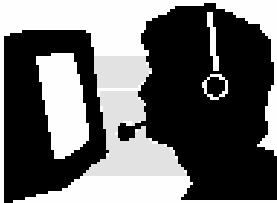
#### **This is your warranty.**

Please retain this document for your records.

No other express warranty is given. The repair or replacement of a product is your exclusive remedy. Any implied warranty of merchantability or fitness is limited to the 1 year duration of this written warranty. Some States do not allow the exclusion or limitations of incidental or consequential damages, so the above exclusion or limitations may not apply to you.

### 1.2 LMI Customer Service

---



LMI Customer Service can be reached at **(810) 714-5811** Monday through Friday between 8:00 a.m. and 5:00 p.m. Eastern Standard Time.

Call LMI Customer Service to:

- Place orders
- Return LMI equipment for service
- Inquire about the status of an order or repair

### 1.3 Returns for Service

---

- Contact Customer Service for a Return Material Authorization (RMA) number. Include a detailed description of the problem.
- Pack the equipment properly. Use the original shipping container, if possible. LMI cannot assume responsibility for damage caused by improper packaging.
- Send the equipment to the following address:

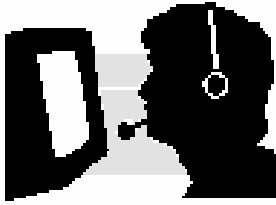
LMI Corporation 101 N. Alloy Drive Fenton, MI 48430
---

# LMI Corporation

---

## 1.4 LMI Technical Support

---



LMI Technical Support experts are only a phone call away. Contact Technical Support for the following reasons:

- To assist in setup and configuring LMI equipment
- To help implement data collection applications
- To troubleshoot LMI equipment

### **There are several ways to contact LMI Technical Support:**

**By Phone:** Call **810-714-5811** Monday through Friday between 8:00 a.m. and 5:00 p.m. (Eastern Standard Time) for answers to your questions.

**By Fax:** Dial **810-714-5711** anytime to fax your questions to LMI Technical Support. Please include in the transmission your name, phone number, hours you can be reached, and a *detailed description* of the problem.

**By Email:** [techsupport@lmicorporation.com](mailto:techsupport@lmicorporation.com) You can email your questions anytime. Please include your name, phone number, and a *detailed description* of the problem.

### LMI On-Site Training

**LMI Technical Support provides on-site training for all LMI products. Contact LMI Support Services at 810-714-5811 for pricing and scheduling information. Schedule a day at your facility or at LMI in Fenton, Michigan.**

### LMI Website

Please visit us on the web @ [www.lmicorporation.com](http://www.lmicorporation.com) for more information.

# LMI Corporation

## SECTION 2: Probe Overview/Functions

### 2.1 LMI DIGI-PROBE Overview

LMI *DIGI-PROBE* is compatible with any Multiplexer that provides power on Pin 9, and can receive a standard Mitutoyo Digimatic format.

The *DIGI-PROBE* will draw a maximum current of 40mA from the multiplexer.

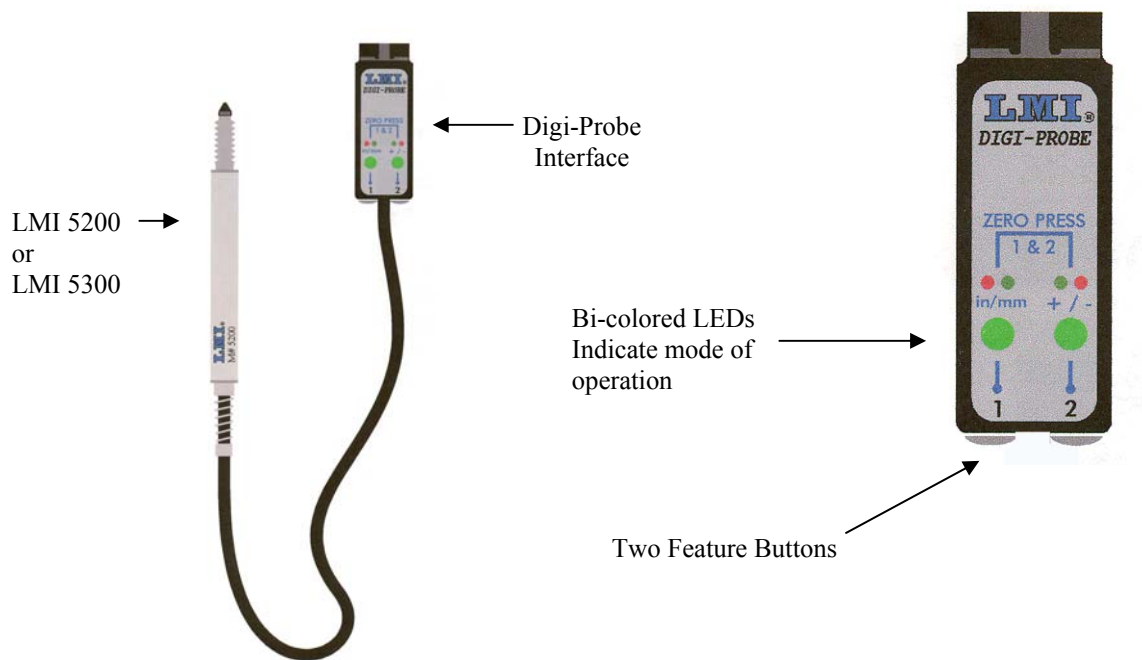


Fig. 1. – LMI *DIGI-PROBE*

# LMI Corporation

## 2.2 Standard Features

**ZERO:** Resets the *DIGI-PROBE* to zero at any position.

**IN/MM:** Inch/millimeter conversion.

**+/- :** Toggles the display between positive and negative value and reverses the counting direction.

Mode	LED Color	Buttons	Operation	Description
mm	● LED 1	Button 1	Press (1-2 sec)	Press button 1 to change the measurement mode from inches to mm.
Inches	● LED 1	Button 1	Press (1-2 sec)	Press button 1 to change the measurement mode from mm to inches.
+ (Positive)	● LED 2	Button 2	Press (1-2 sec)	Press button 2 to change the display to Positive. Value increases as plunger moves in.
- (Negative)	● LED 2	Button 2	Press (1-2 sec)	Press button 2 to change the display to Negative. Value decreases as plunger moves in.
Zero Probe	N/A	Button 1 & 2	Press Simultaneously (1 sec)	Press button 1 and 2. Lights will go out momentarily to indicate probe zeroed.

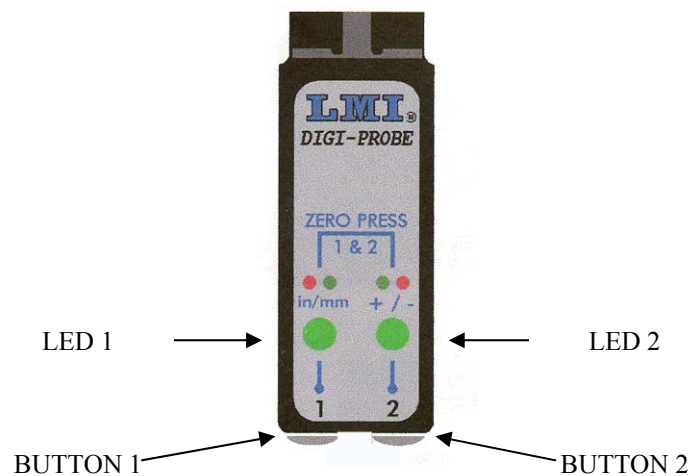

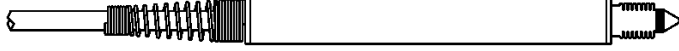


Fig. 2. - *Digi-Probe* Features

# LMI Corporation

## 2.3 Advanced Features

**Calibrate:** The LMI *DIGI-PROBE* is calibrated and ready to use immediately, however, it can be recalibrated at any time to ensure accuracy.

Mode	LED Color	Buttons	Operation	Description
Enter Calibration Mode		Button 2	Press and hold for at least 6 sec.	LED will start flashing rapidly. Probe must be calibrated if this option is entered.
Calibrate	● LED 2 (flashing red)	Button 2	Press (1-2 sec)	Press button 2 to proceed with calibration. LED will turn green.
Set LO	● LED 2 (Green)	Button 2	Press (1-2 sec)	Fully extend plunger and press button 2 to save LO position. LED will turn red.
				
Set HI	● LED 2 (Red)	Button 2	Press (1-2 sec)	Fully retract plunger and press button 2 to save HI position and exit calibration mode.
				

**Center Probe:** The LMI *DIGI-PROBE* can be centered so that travel is -5 to +5 on each side of zero.

Mode	LED Color	Buttons	Operation	Description
Center Probe	N/A	Button 1	Press and hold for at least 6 sec or until lights go out momentarily.	Press and hold button 1 to center probe so that travel is -5 to +5 on each side of zero.