



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

Research, Development and Manufacturing of Precision Measuring Systems

---

**MASTERING/ CALIBRATION INSTRUCTIONS FOR LMI 300  
TO INTERFACE WITH ASI Datamyte 501**

**REQUIRED EQUIPMENT:**

LMI 300 Transducer  
LMI 3030 or 3062 Master Block  
LMI 6009 4 pin-4 pin cable

**SETUP FOR FLUSH:**

1. Connect the transducer to Gage Port 4 of the data collector.
2. Press <menu> to turn on the ASI Datamyte 501
3. Press ▼ to highlight “Gage”.
4. Press <enter>.
5. From the list displayed, use the ▲ or ▼ keys on the data collector to choose which gage designation to configure, (i.e., G4, G4A) and press <enter>.
7. Type the unique gage name, (i.e.: LMI-FLUSH) and press ► when complete.
8. Press the ► to highlight “Configure” and set up as follows using the ▼ and ▼ buttons to highlight the different selections. Use the <enter> button to toggle the choices.
  - Type: Read at Enter
  - Master Type: (Three point)
  - Scale: 10\*
  - Zero Master: 0
  - Zero at Enter: (No)
9. Press the ► to highlight “Master”.
10. Fully extend the transducer; highlight ‘Master Lo’ and press <enter>.
11. Fully retract the transducer; highlight ‘Master Hi’ and press <enter>.
12. Place the LMI 300 into the LMI 3030 or 3062 block in the 0.0 mm flush master position, highlight ‘Master Zero’ and press <enter>

# LMI Corporation

---

## SETUP FOR GAP:

1. Connect the transducer to Gage Port 4 of the data collector.
2. Press <menu> to turn on the ASI Datamyte 501
3. Press ▼ to highlight “Gage”.
4. Press <enter>.
5. From the list displayed, use the ▲ or ▼ keys on the data collector to choose which gage designation to configure, (i.e., G4a, G4b) and press <enter>.
6. Type the unique gage name, (i.e.: LMI-GAP) and press ► when complete.
7. Press the ► to highlight “Configure” and set up as follows using the ▼ and ▼ buttons to highlight the different selections. Use the <enter> button to toggle the choices.
  - Type: Read at Enter
  - Master Type: (Three point)
  - Scale: 10
  - Zero Master: 3\*\*
  - Zero at Enter: (No)
8. Press the ► to highlight “Master”.
9. Fully retract the transducer; highlight ‘Master Lo’ and press <enter>.
10. Fully extend the transducer; highlight ‘Master Hi’ and press <enter>.
11. Place the LMI 300 into the LMI 3030 or 3062 block in the 3.0 mm gap master position highlight ‘Master Zero’ and press <enter>
12. Calibration is now complete\*\*\*

\* **Note:** This configuration will produce a positive reading when retracted beyond the nominal. To reverse the signs change the scale value in the configuration screen to –10.00.

\*\* **Note:** This configuration will produce actual values, if deviation from nominal is desired, change the ‘Zero Master’ to 0.

\*\*\* **Note:** to verify calibration and mastering use the LMI 300 with the 3062 master block in the appropriate “Test” screen, i.e., G4 for flush and G4a for gap.