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LMI ™

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LINEAR MEASUREMENT INSTRUMENTS, Corp.

Research, Development and Manufacturing of Precision Measuring Systems

MASTERING/ CALIBRATION INSTRUCTIONS FOR LMI 300
TO INTERFACE WITH LMI 440

REQUIRED EQUIPMENT:

LMI 300 Transducer

LMI 3030 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 LMI 440

3. Press ▼ to highlight "Gage".

4. Press <enter>.

5. From the list displayed, use the ▲ or ▼ keys on the data collector to choose which

6. 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 block in the 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 LMI 440

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 block in the 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 3030 master block in the appropriate "Test" screen, i.e., G4 for flush and G4a for gap.