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LINEAR MEASUREMENT INSTRUMENTS, Corp.

Research, Development and Manufacturing of Precision Measuring Systems

CALIBRATION/ MASTERING INSTRUCTIONS FOR LMI 770 TO INTERFACE WITH DATAMYTE 501

REQUIRED EQUIPMENT FROM DATAMYTE: DataMyte 501

REQUIRED EQUIPMENT FROM LMI: LMI 770 Transducer
LMI 720 Master Block
6009 4 pin to 4 pin cable

SETUP FOR FLUSH:

1. Connect the transducer to Gage Port 4/5 of the data collector.
2. Press <menu> to turn on the 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
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 0the ▼ and ▲ buttons to highlight the different selections. Use the <enter> button to toggle the choices.
    9. Type: Read at Enter
    10. Master Type: (Three point)
    11. Scale: 10*
    12. Zero Master: 0
    13. Zero at Enter: (No)
14. Press the ▶ to highlight "Master".
15. Fully extend the transducer; highlight 'Master Lo' and press <enter>.
16. Fully retract the transducer; highlight 'Master Hi' and press <enter>.
17. Place the LMI 770 into the LMI 720 block in the flush master position, highlight 'Master Zero' and press <enter>

SETUP FOR GAP:

1. Connect the transducer to Gage Port 4 or 5 of the data collector.
2. Press <menu> to turn on the 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
6. gage designation to configure, (i.e., G4a, G4b) and press <enter>.
7. Type the unique gage name, (i.e.: LMI-GAP) and press ⏭ when complete.
8. Press the ▶ to highlight “Configure” and set up as follows using 0the ▼ and ▼ buttons to highlight the different selections. Use the <enter> button to toggle the choices.
    9. Type: Read at Enter
    10. Master Type: (Three point)
    11. Scale: 10*
    12. Zero Master: 0**
    13. Zero at Enter: (No)
14. Press the ▶ to highlight “Master”.
15. Fully extend the transducer; highlight ‘Master Lo’ and press <enter>.
16. Fully retract the transducer; highlight ‘Master Hi’ and press <enter>.
17. Place the LMI 770 into the LMI 720 block in the gap master position highlight ‘Master Zero’; press <enter>
18. Calibration is now complete***

NOTES:

* 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.

** This configuration will produce deviation from nominal, if the actual gap reading is desired, change the ‘Zero Master” to 3 and reverse steps 9 and 10 for Gap.

*** To verify calibration and mastering use the LMI 770 with the 720 master block in the appropriate “Test” screen, i.e., G4 for flush and G4a for gap.