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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 3053

REQUIRED EQUIPMENT FROM DATAMYTE:

DataMyte 3053

REQUIRED EQUIPMENT FROM LMI:

LMI 770 Series Flush/Gap Transducer LMI 720 Master Block LMI 6100 Interface which includes: LMI 6009 4 pin to 4 pin cable LMI 6011 6 pin to 8 pin cable LMI 6007 Interface Control Unit LMI 6002 Modular Adaptor

SET UP FOR FLUSHNESS:

- 1. Connect the transducer to Gage Port 1 of the data collector.
- 2. Turn on the data collector.
- 3. Move the cursor to "Options".
- 4. Select "Configure Gages" and press "Enter".
- 5. From the list displayed use the arrow keys on the data collector to choose which gage designation to configure, (i.e., G1, G1A) and press "Enter".
- 6. Type the unique gage name, (i.e.: LMI-FLUSH) and press "Enter".
- 7. Move the cursor to "Configure" and set up as follows:
 - Type: Gap & Flush
 - Scale: 10
 - ➢ Zero Master: 0
 - Transducer: Low level gap gage
 - Switch: (Read)
 - Master Type: (Three point)
 - Show Additional Parameters: (No)
- Press the right arrow key. A "Save Gage Configuration" window will pop-up. Select "Save to Current Gages" and press "Enter".
- 9. Move the cursor to 'Master''.
- 10. Fully retract the transducer, select 'Master Lo", and press "Enter".

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- 11. Fully extend the transducer, select "Master Hi", and press "Enter".
- 12. Position the transducer into the calibration block's flush master position. Select "Master Zero" and press "Enter".

NOTE: The current configuration produces a negative reading when retracted beyond the nominal. To reverse the signs change the scale value in the configuration screen to -10.00.

13. The Calibration/ Mastering for flushness is now complete.

SET UP FOR GAP:

- 1. Connect the transducer to Gage Port 1 of the data collector.
- 2. Turn on the data collector.
- 3. Move the cursor to "Options".
- 4. Select the "Configure Gages" and press "Enter".
- 5. From the list displayed use the arrow keys on the data collector to choose which gage designation to configure, (i.e.: G1B G1C) and press "Enter".
- 6. Type the unique gage name, (i.e.: LMI-GAP) and press "Enter".
- 7. Move the cursor to "Configure" and setup as follows:
 - Type: Gap & Flush
 - ➤ Scale: 10mm (.394)
 - Zero Master: 0
 - Transducer: Low level gap gage
 - Switch: (Read)
 - Master Type: (Three Point)
 - Show Additional Parameters: (No)
- 8. Press the right arrow key. a "Save Gage Configuration" window will pop-up. Select "Save to Current Gages" and press "Enter".
- 9. Move the cursor to "Master".
- 10. Fully extend the transducer, select "Master Hi", and press "Enter".
- 11. Fully retract the transducer, select "Master Lo", and press "Enter".
- 12. Place the transducer into the calibration block's gap mastering position. Select "Master Zero" and press "Enter".
- The calibration procedure for gap is now complete. This completes the calibration procedure on the LMI 770 Transducer.

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