



LINEAR **M**EASUREMENT **I**NSTRUMENTS, Corp.

Research, Development and Manufacturing of Precision Measuring Systems

**CALIBRATION/ MASTERING INSTRUCTIONS FOR LMI 200 PROBE TRANSDUCER
WITH THE DATAMYTE 3053 USING 6100 INTERFACE**

REQUIRED EQUIPMENT FROM DATAMYTE:

DataMyte 3053

REQUIRED EQUIPMENT FROM LMI:

LMI 200-S or SB Probe
LMI 210 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

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-200) 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. Place the Probe in the top step of the 210 mastering block. Select "Master Lo". Press "Enter".
11. Place Probe in the lowest step of the 210 mastering block. Select "Master Hi". Press "Enter".
12. Place the Probe in the middle step of the 210 mastering block. Select "Master Zero" and press "Enter". The value should read 0.000.

NOTE: This configuration produces a positive reading when retracting beyond the nominal. To reverse the signs, change the scale value in the configuration screen to -10. This mastering procedure produces a nominal zero at 31 mm. For more information refer to the LMI catalog or tracing template for the LMI 200 Probe.