

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

Research, Development and Manufacturing of Precision Measuring Systems

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**CALIBRATION INSTRUCTION FOR THE LMI 585 AND TP-107**

**NOTE:** These instructions assume the LMI 585 has been formatted to read the TP-107. If the LMI 585 has not been formatted, please refer to the adjustment to the LMI 585 with the TP-107 (form CI1172).

**REQUIRED EQUIPMENT:**

LMI 585 Digital Transmitter  
LMI TP-107 Tru-Position Gage  
LMI OSM-1.25 2.5mm Offset Master  
LMI 6018 6 pin to 6 pin Modular Cable (shipped with LMI TP-107)  
LMI Zero Master Bushing (shipped with LMI TP-107)

1. Connect the LMI TP-107 together with the LMI 585 using the LMI 6018 6 pin-6pin cable.
2. Press the I/O button to turn on the LMI 585.
3. Press the ▼ to \*MENU\* CAL >.
4. Press the ► to \*CAL PORT 1P>.
5. Press the ▼ twice to \*CAL PORT 2A>.
6. Press the ► to \*PORT 2A LOW CAL.
7. Place the LMI TP-107 into -A position of the OSM-1.25 and press the “Select” button. The LMI 585 will then show \*PORT 2A HI CAL.
8. Place the LMI TP-107 into +A position of the OSM-1.25 and press the “Select” button. The LMI 585 will then show \*PORT 2A MASTER.
9. Place the LMI TP-107 into the Zero Master Bushing (sent with the TP-107), and press the “SELECT” button. The LMI 585 will then show \*CAL PORT 2A>.
10. Press the ▼ to \*CAL PORT 2B>.
11. Press the ► to \*PORT 2B LOW CAL.
12. Place the LMI TP-107 into -B position of the OSM-1.25 and press the “Select” button. The LMI 585 will then show \*PORT 2B HI CAL.
13. Place the LMI TP-107 into +B position of the OSM-1.25 and press the “Select” button. The LMI 585 will then show \*PORT 2B MASTER.
14. Place the LMI TP-107 into the Zero Master Bushing (sent with the TP-107), and press the “SELECT” button. The LMI 585 will then show \*CAL PORT 2B>.
15. Press the “SEND” button to return to the Gage Reading screen.
16. Press the ◀ until both readings for A and B appear on the LMI 585.