

Research, Development and Manufacturing of Precision Measuring Systems

Quick Start Guide to LMI TP-107 Wireless Gages

For a video demonstration, please click [here](#).

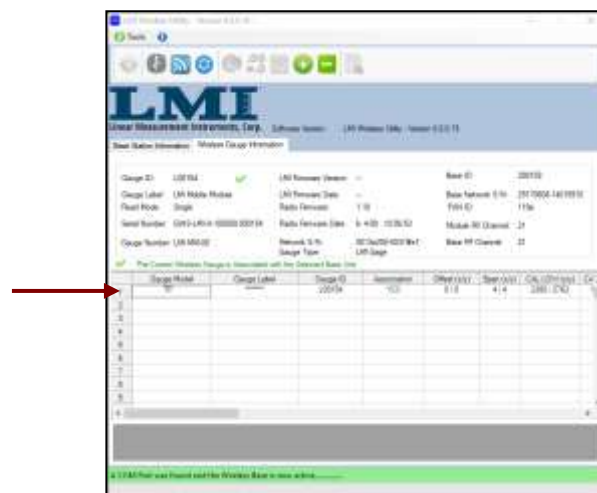
Launching the Software

To start the LMI Wireless Utility, plug the MicroRidge USB base into an available USB port on the device and select the Desktop Icon or select the program name from the listed program files under the Start Menu.



Entering Setup Mode

- To put the gage in setup mode, press and hold the in/mm button on the upper right corner of the gage for about four seconds until the green LED begins to flash.
- After the gage is in setup mode, press and release the button quickly to bring up the Wireless Gage Information window. The yellow light on the USB Base will indicate if a command was received
- Once the gage had populated the information grid, double click on the row number to enter the calibration screen.



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Calibrating Wireless True Position 107

To Master an LMI Wireless Gauge Device, you will follow a basic 3 Point Mastering process for the 200 Probe Series, Seal Gap Series, and the 241/BW Series Gauges:

- **LO Position**
- **HI Position**
- **Master Position**

To begin the calibration process, click the CAL LO button shown screen displayed below.

- Notice the *Update* button will be disabled at this point in the master process.

LMI Wireless Utility - Edit Gauges

Gauge ID: L00154

LMI TP Probes

Probe Configurations

Gauge Model: TF

Gauge Label: [Empty]

Gauge ID: L00154

Offset A-Axis: 0.9448

Offset B-Axis: 0.9842

Span A-Axis: 0

Span B-Axis: 0

Time-Out (min): 0392 in Minutes

Units (mm/Inches)

Units (mm/Inches) Set to (MM) Set to (Inches)

Invert Sign A-Axis (+/-)

Invert Sign (+/-): (+) Sign (-) Sign

Audio (On/Off)

Audio (ON/OFF): Audio (ON) Audio (OFF)

Invert Sign B-Axis (+/-)

Invert Sign (+/-): (+) Sign (-) Sign

Turn TP Calculations ON

Update

A-Axis Probe Master

CAL LOW CAL HIGH

B-Axis Probe Master

CAL LOW CAL HIGH

A/B-Axis Probe Feature

Zero Master

Testing Window

A-Axis 0.00

B-Axis 0.00

Calculation N/A

Probe Battery Level

75%

SAMPLE

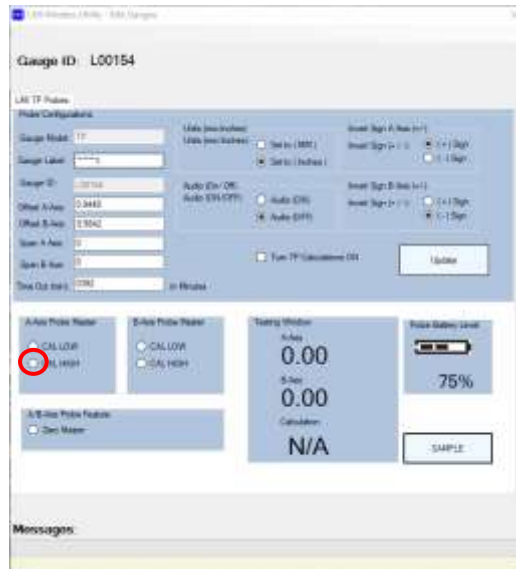
Messages:

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Calibration of LMI TP-107 Wireless is done using an OSM 1.25 Master Block and Zero Master Bushing.

A-Axis Master LO Position:

- Click on the A-Axis *Cal LO* button



- Place the TP-107 into the OSM 1.25 Master Block and align the orientation block to the “Low” position for the Master A-Axis.
 - o Press the *Sample* button on the Wireless Utility



A-Axis Master High Position:

- Move the orientation block to the Master High Position.
 - o Press the *Sample* button on the Wireless Utility



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B-Axis Master LO Position:

- Click on the A-Axis *Cal LO* button



- Move the orientation block to the "Low" position for the Master B-Axis.
 - o Press the *Sample* button on the Wireless Utility



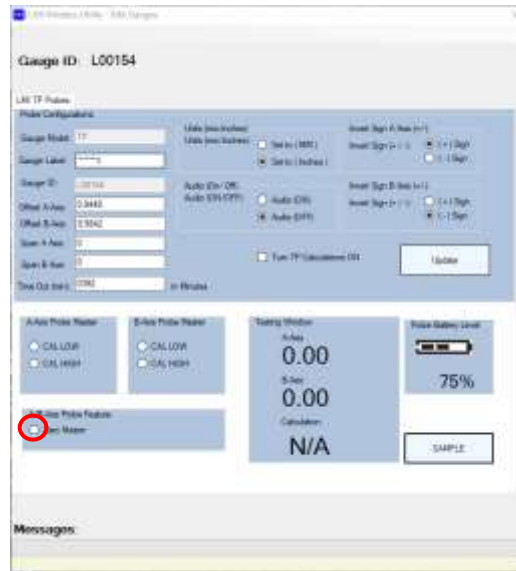
B-Axis Master High Position:

- Move the orientation block to the Master High Position.
 - o Press the *Sample* button on the Wireless Utility



Zero Master of A-Axis & B-Axis:

- Click on the *Zero Master* button



- Place the LMI TP-107 Wireless Gauge into the Zero Master Bushing
 - o Press the *Sample* button on the Wireless Utility

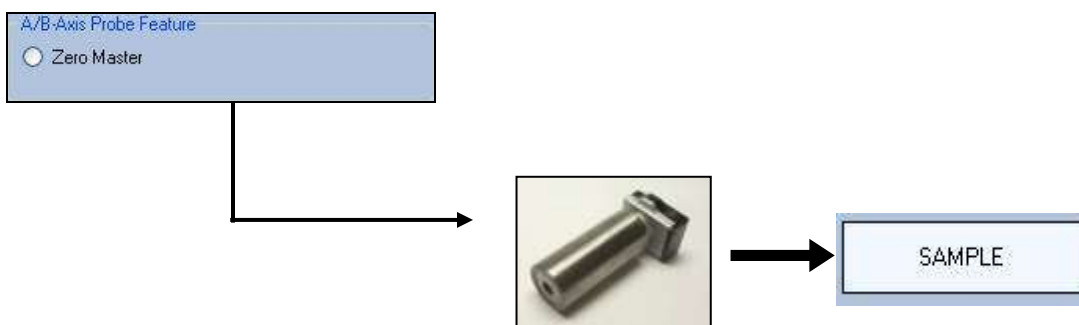


Fig. 4.2 Wireless TP-107 with zero bushing

Click on the Red “X” in the upper right-hand corner of the window to return to the Wireless Gauge Utility home screen.

If there are any issues during Calibration, the Wireless Utility will revert to the LO (Starting Calibration Position) and the Calibration steps will need to be performed again.