# Metrix+™ Troubleshoot Guide **Coat Measurer series**

**This guide is only for scenarios when replacing a new probe with the instrument or when instrument is showing improper values or probe not sensing. Follow this only when advised, otherwise it might damage the instrument.**

**How to calibrate?** *(For Coat Measurer F, follow only the F mode)*

- F mode
    1. Make sure the measuring mode is Single. You change the mode by pressing 'S/C' key.
    2. Press the power key, till "CAL" appears and then release it. "F.H" should appear on the screen, then press the 'Zero' key to confirm. (pay attention: the probe must be in the air and cannot touch anything during this operation).
    3. Perform zero calibration, by pressing the probe on the F plate and then press 'Zero' to make the display show '0' followed by a beep. After the beep, lift the probe to complete it. Now, if you press the probe on the F plate, automatically 0 should appear with a beep for successful zero calibration. If not, try repeating it.
    4. Put one foil set such as 120(or nearer value) on the F plate to check the reading. If not correct, press up /down to adjust it to foil value. Measure again to ensure the reading is nearer to foil value.
    5. Check higher value foil set (400um or nearer) and measure the foil value. If it is OK, then instrument is successfully calibrated. If not, try repeating from step 1 again. If still not happening, contact your supplier for further support.
- NF mode
    1. Make sure the measuring mode is Single. You change the mode by pressing 'S/C' key.
    2. Press the power key, till "CAL" appears and then release it. "nF.H" should appear on the screen, then press the 'Zero' key to confirm. (pay attention: the probe must be in the air and cannot touch anything during this operation).
    3. Perform zero calibration, by pressing the probe on the NF plate and then press 'Zero' to make the display show '0' followed by a beep. After the beep, lift the probe to complete it. Now, if you press the probe on the NF plate, automatically 0 should appear with a beep for successful zero calibration. If not, try repeating it.
    4. Put one foil set such as 120(or nearer value) on the NF plate to check the reading. If not correct, press up /down to adjust it to foil value, then it is OK.
    5. Check higher value foil set (400um and higher) and measure the foil value. If it is OK, then instrument is successfully calibrated. If not, try repeating from step 1 again. If still not happening, contact your supplier for further support.

**Precautions:**

- Calibration should be done separately in F and nF mode. Do not change the substrate in between calibration.
- Do not try to change the Ln value too many times, or it may permanently damage the instrument *(Refer manual)*.
- Always complete the full calibration cycle. Do not switch off the instrument in between.

- Trying to calibrate the instrument too many times at once may damage it, and the company would not be liable for any service.

**Things to remember:**

- Calibration foils should only be used to calibrate the instrument to the nearest approximate value of the sample. The instrument is not supposed to show correct values for all the foils at the same time. So, please calibrate with only the foil value which is nearest to the approximate sample value.
- The measurement accuracy depends on a lot of variable factors, like sample roughness, coating uniformity and consistency, environmental conditions, etc. Kindly check all these before measuring.
- Read the manual before use.