To perform the test:

STEP 1 Place the calibrator on a flat surface with at least six inches of free space around the instrument.

STEP 2 Carefully insert the probe basket into the well and fill with the appropriate fluid.

STEP 3 For optimal performance allow the manufacturer-recommended warm-up period.

STEP 4 Insert the test probe to be calibrated into the well of the bath. For best performance, also insert a temperature standard for comparison.

STEP 5 Once the probe is inserted to the full depth of the bath, allow adequate stabilization time for the test probe temperature to settle.

STEP 6 Once the probes have settled to the temperature of the bath, their indication may be compared to the calibrator display temperature (or to a temperature standard such as a 1551A).

TECH TIPS

- **Caution:** the fluid level rises with higher temperatures and with the number and size of the probes placed into the fluid.
- Best results are obtained with the probe inserted to the full depth of the well.
- The stabilization time of the Micro-Bath depends on the conditions and temperatures involved. Typically stability is achieved within ten minutes.

Additional resources

For more in depth information about this application check out these videos and application notes from Fluke.

Industrial Temperature Calibrators Workload Matrix

Process Calibration Tools: Temperature Applications