

TEMPERATURE CORRECTION IN THERMALPRO: HOW IT WORKS

FREQUENTLY ASKED QUESTION #13

Question:

I have been using ThermalPro for several years now, and I really like it. One question I have concerns the temperature correction. I am working in a flow that has a significant temperature change over the span of my experiments. What are my options to account for this?

Answer:

In the IFA 300 there are three modes for temperature correction (and these are done automatically).

1. Use thermocouple.

A reading is taken at start and end of run. Then velocity is corrected based on temperature correction of the mean of two temperatures compared to calibration temperature.

2. No thermocouple

User inputs temperature and the resulting correction comes from a comparison to the calibration temperature.

3. Use a CCA bridge

This constantly measures temp and will correct each velocity measurement. I suggest that you use a CCA bridge for your flow, because of the rapidly changing temperature.





UNDERSTANDING, ACCELERATED

TSI Incorporated – Visit our website www.tsi.com for more information.

USA	Tel: +1 800 874 2811	India	Tel: +91 80 67877200
UK	Tel: +44 149 4 459200	China	Tel: +86 10 8251 6588
France	Tel: +33 4 91 11 87 64	Singapore	Tel: +65 6595 6388
Germany	Tel: +49 241 523030		