

CORRECTION OF GRADIENT ERRORS IN THERMAL ANEMOMETRY

FREQUENTLY ASKED QUESTION #3

Question:

I have a TSI hot wire system with IFA signal processor. The system works fine. I am now measuring a highly turbulent flow. The turbulence intensity is over 20%. The question came up as to whether ThermalPro software can correct for gradient errors.

Answer:

In these cases we advise using the smallest size wire type probe possible, for the best frequency response. The error involved here results from the possibility of instantaneous flow reversal because of the high turbulence intensity. ThermalPro does not correct for this type of error.





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		