

## Measured Velocity Jumps when Changing IFA300 Modes

Frequently Asked Question #21

### Question:

I have an 8 channel IFA300 based hotwire anemometry system from TSI. We purchased this system in 2005 and it worked fine until very recently, when we noticed occasional step changes in velocity after we go into the “Acquisition” mode. We select the calibration and then the IFA makes some clicking sounds. The velocity usually jumps up and then drifts back down after several minutes. We are certain our flow rig is not fluctuating this severely, and the velocity at our measurement point is not changing. The flow is clean air. Surprisingly, some probes do not show this step change, but others do. We are not sure what is causing this- the probe or the IFA300. What can we do?

### Answer:

Step changes in velocity can be caused by a defective probe, contaminations in the flow, or an IFA300 problem. The clicking sound coming from the IFA300 is normal. Your testing seems to indicate the IFA is the cause. Thus, we can be quite certain that the IFA itself is causing the step changes, and it should be returned to TSI for evaluation and repair.



---

**TSI Incorporated** - 500 Cardigan Road, Shoreview, MN 55126-3996 USA  
USA    Tel: +1 800 874 2811    E-mail: fluid@tsi.com    Website: www.tsi.com  
UK    Tel: +44 149 4 459200    E-mail: tsuuk@tsi.com    Website: www.tsiinc.co.uk  
France    Tel: +33 491 95 21 90    E-mail: tsifrance@tsi.com    Website: www.tsiinc.fr  
Germany    Tel: +49 241 523030    E-mail: tsigmbh@tsi.com    Website: www.tsiinc.de  
Sweden    Tel: +46 8 595 13230    E-mail: tsiab@tsi.com    Website: www.tsi.se  
India    Tel: +91 80 41132470    E-mail: tsi-india@tsi.com  
China    Tel: +86 10 8260 1595    E-mail: tsibeijing@tsi.com

Contact your local TSI Distributor or visit our website [www.tsi.com](http://www.tsi.com) for more detailed specifications.



TRUST. SCIENCE. INNOVATION.