



Welcome to Issue #90

We value your readership of our newsletter each month and are always willing to answer any questions you may have. If you have any questions about topics you've seen here or have any topics you would like to see covered in this newsletter, [please send me an email](#) and we will add it to our ever growing list of discussion topics. Thank you for your interest!

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ICP vs Charge Mode Sensors and Instrumentation
By Mike Dillon, Calibration Product Group Manager

Piezoelectric sensors are widely accepted for their excellent output linearity and dynamic response. As sensor users, it is important to understand the core principles of piezoelectricity, the fundamental advantages and disadvantages of piezoelectric sensors, as well as the basics of signal conditioning designs...



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modalshop.com/calibration.asp?ID=1045

Tip of the Month: What Causes High-Frequency Calibration Problems?

Most calibration problems at high frequency are a result of the mounting. If a sensor has issues at the upper frequencies, this is the first thing to check/verify.

What's the Difference? Percent Difference vs Deviation In Accelerometer Calibration
By Patrick Timmons, Calibration Systems Engineer



Have you ever found yourself in a lengthy calibration-related conversation? With details such as specifications, in tolerance/out of tolerance status and uncertainties being discussed? Chances are that you have ended up using "percentage difference" or "deviation" several times...

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modalshop.com/calibration.asp?ID=1044

Technical Exchanges

[Dynamic Sensors and Calibration Seminar and Open House](#)

The Modal Shop, Inc.
May 13, 2015
Cincinnati, OH

[Successful Measurement of Dynamic Force, Pressure and Acceleration](#)

By Dr. Pat Walter at PCB
May 19-21, 2015
Buffalo, NY

[Sensors Expo & Conference](#)

June 9-11, 2015
Long Beach, CA

[SAE Noise & Vibration](#)

Blast from the Past: 10 Best Laboratory Practices

There are 10 practices that laboratories, test organizations and individual analysts should keep in mind when performing daily analytical tasks. Many professionals may see these 10 practices as no-brainers. That's a good thing. However, all of us



[Conference & Exhibition](#)

June 22-25, 2015
Grand Rapids, MI

Quick Links

[PTB](#)

[NIST](#)

[ISO TC 108](#) - Mechanical vibration, shock and condition monitoring

[ISO TC 108/SC 3](#) - Use and calibration of vibration and shock measuring instruments

[ISO TC 108/SC 6](#) - Vibration and shock generating systems

[SAVE \(Formerly SAVIAC\)](#)

[Vibration Institute](#)

[Equipment Reliability Institute \(ERI\)](#)

[TMS Video Vault](#)

[Calibration - Learn More](#)

Previous Newsletters

[Dynamic Sensors & Calibration #89](#)

How Do I Calibrate DC Response Accelerometers?; How Does Shaker Design Affect Transverse Motion?

[Dynamic Sensors & Calibration #88](#)

How to Calibrate Your 4-20mA Current Loop Vibration Sensors; The Science of Accelerometer and Sensor Mounting

Select Newsletter Articles by Topic

[Function and Structure of Accelerometers](#)

[Similarities Between Charge and ICP Operation](#)

[Selecting Accelerometers for Mechanical Shock](#)

[Master List of Topics \(T.O.C.\)](#)

PCB Group Companies

[The Modal Shop Systems & Service Website](#)

[PCB Piezotronics Sensor Website](#)

[IMI Monitoring Website](#)

[Larson Davis Acoustics Website](#)

[PCB Load & Torque Website](#)

[SimuTech FEA Website](#)

who are willing to tell the truth will admit there have been times when we might have slipped a bit on one or two. These "slips" can affect test result validity...

[Click to read full article](#)

modalshop.com/calibration.asp?ID=371

Thanks for joining us for another issue of "Dynamic Sensors & Calibration Tips". As always, please speak up and [let us know what you like](#). We appreciate all feedback: positive, critical or otherwise. Take care!

Sincerely,



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A PCB Group Company
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