sensor & calibration tips

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Dear Kathleen,

Welcome to issue #17-

If you are new to our newsletter, please enjoy this short communication, share it with a colleague and have a look at the archive links below where you'll find all the back issues with their wealth of information. We're glad to have you on board!

Join Our Mailing List!

Tip of the Month

Calibrating low frequency ICP accelerometers

When calibrating low frequency ICP accelerometers, make certain that you allow ample time for the sensor's bias voltage to stabilize. This may take several minutes, depending upon the specified discharge time constant of the accelerometer.

Quick Links

NCSL
IMEKO
NIST
PTB

NAPT
NIST uncertainty guideline
Wiki on uncertainty

Industrial Vibration Sensors
Vibration Institute

The Modal Shop website
PCB Piezotronics website

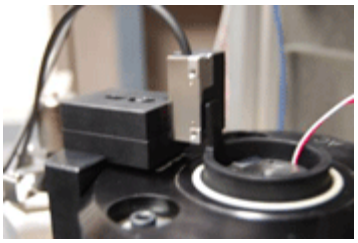
Newsletter Archive

sensor & cal tips #13 - ESS Accelerometer considerations; Relative motion in calibration

sensor & cal tips #14 - Proficiency in calibration; Sensor considerations for NVH

sensor & cal tips #15 -

Improving your accelerometer calibration reference measurement at low frequencies



Accelerometer users in the structural testing field often ask about how to calibrate a sensor's performance at the low end of the frequency response curve. Since most manufacturers start the standard factory calibration at 10 Hz, there is typically no data delivered with an accelerometer documenting its low frequency performance. To measure this data, a supplemental low frequency calibration must be performed.

Click to read more about improving your accel calibration
(http://www.modalshop.com/test_calibration.asp?ID=236)

ICP® options: What's your favorite flavor?

Within the world of ICP sensing there are some common options that can be applied to almost any typical accelerometer. Here's a quick review of the most common options. How many of them are you familiar with? This list contains the PCB® model number prefixes and a brief description of the options.

Click to read more about ICP options
(http://www.modalshop.com/test_calibration.asp?ID=237)

We appreciate your interest and are glad to be providing you regular information to help with your dynamic testing and calibration needs. If you have any questions you would like answered or have a topic you would like to see covered, please contact us and we'll be glad to help out.

Interpreting calibration results; Discharge time constant

sensor & cal tips #16 -
New developments in accel cal; Introduction to industrial accels

Archived sensor & cal tips - all the back issues

Sincerely,

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Forward email