Thank you for choosing a Crossbow sensor. This worksheet is designed to help you get started. Refer to the product data sheet for more complete information.

**Definitions**

Zero-G Voltage: This number is the output voltage of the sensor with zero applied acceleration measured at the factory on the day of the calibration.

Sensitivity: This number is the sensor's sensitivity in Volts per G. One G is approximately 9.8 meters per second squared.

**Calibration**

The simplest method of field calibration is to record the sensor's output voltage when exposed to the Earth's gravitational field. Expose the sensor to +1G to obtain a more positive reading than the zero-G voltage. Expose the sensor to -1G to obtain a more negative reading than the zero-G voltage. The offset is defined as the average of the +1G and -1G voltages. The sensitivity in Volts per G is one-half the difference of the +1G and -1G voltages. Please note that this technique only works on DC coupled sensors. If your sensor is AC coupled, a shaker is required for proper calibration.

This unit was tested using version 3.5 A of the factory calibration software.

**Technical Support**

For further technical assistance, contact Crossbow Technology.

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