

Calibration Data: Room Temperature

| | X Axis | Y Axis | Z Axis |
|----------------|--------|--------|--------|
| Zero-G Voltage | 2.449 | 2.492 | 2.404 |
| Sensitivity | 0.201 | 0.199 | 0.200 |

| | |
|---------------|------------|
| Part Number | CXL10GP3 |
| Serial Number | 0901002542 |

| | |
|----------|------------|
| Options: | DC Coupled |
|----------|------------|

Wiring Diagram:

| Color | Pin | Function |
|--------|-----|---------------|
| Red | 1 | 4.9 - 5.5 Vdc |
| Black | 2 | Ground |
| White | 3 | X-axis |
| Yellow | 4 | Y-axis |
| Green | 5 | Z-axis |



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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