

Certificate of Conformance

# Crossbow

calibration date

10/08/2002

2.11

## Calibration Data: Room Temperature

	X Axis	Y Axis	Z Axis
Zero-G Voltage	2.475	2.507	2.507
Sensitivity	0.200	0.202	0.197

Part Number

CXL10LP3

Serial Number

126574

Options:

DC Coupled

### Wiring Diagram:

Color	Pin	Function
Red	1	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.

#### 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.

#### Technical Support

For further technical assistance, contact Crossbow Technology.

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