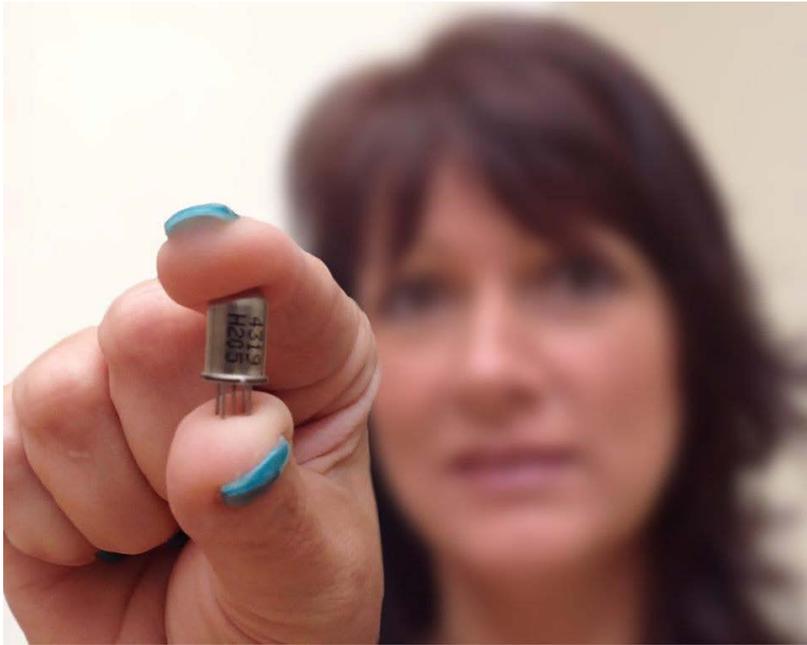


# TrueTilt™ Sensors Shock and Vibration

frederickscompany.com



## Company Overview

The Fredericks Company is an ISO 9001:2008 certified company founded in 1935. Our facility is located in Huntingdon Valley, Pennsylvania and we are a leading designer and manufacturer of tilt sensors and inclinometer assemblies. Because we design and manufacture both the core sensor and the completed inclinometer assembly at our facility, we maintain full control over the production process of our units. This ensures quality from unit to unit and eliminates any problems associated with parts obsolescence. Tilt sensors manufactured at our facility have performed reliably in the field for many years, testifying to the quality of our products and workmanship.

The long history of our company provides assurance that we will continue to support and manufacture our products in coming years; we also guarantee support of our products for as long as they are being used in our customers' products and the raw materials remain available. Our skilled engineering team has decades of combined experience and can provide in depth implementation recommendations upon request.

## The Fredericks Company

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## Vertical Drop Tests

6 inches  
2 axes  
Peak deceleration of 200 g

12 inches  
2 axes  
Peak deceleration of 275 g

36 inches  
2 axes  
Peak deceleration of 475 g

## Vibration Tests

20-50 Hz  
3 axes  
20 minutes  
Peak acceleration of 5 g

## TrueTilt™

Fredericks TrueTilt™ sensors provide absolute angular position measurement for angle ranges in two axes up to  $\pm 60^\circ$ . They are designed for industrial applications and are capable of withstanding extreme temperatures and environments where high shock and vibration are present. Our finished assemblies have been CE certified and environmentally tested to guarantee their performance over a wide range of operating conditions.

TrueTilt™ sensors are low cost, simple to integrate, and highly accurate, making them an ideal solution for a variety of applications. They are manufactured at our facility in Huntingdon Valley, Pennsylvania and 100% of our sensors are tested before shipment to guarantee quality.