

# CANBUS Series MEMS Inclinometer

The 2GIG CANBUS pitch and roll sensor is engineered to work for all applications. Our internal software provides unlimited programming capabilities that allow us to provide one of the easiest to use sensors on the market.



ENGINEERED TO PERFORM  
AT EVERY LEVEL

## ADAPTIVE SENSING TECHNOLOGY

### | STABILITY |

Combination of a 3-axis Accelerometer and 3-axis Gyroscope provides excellent stability under extreme environments

### | FILTER |

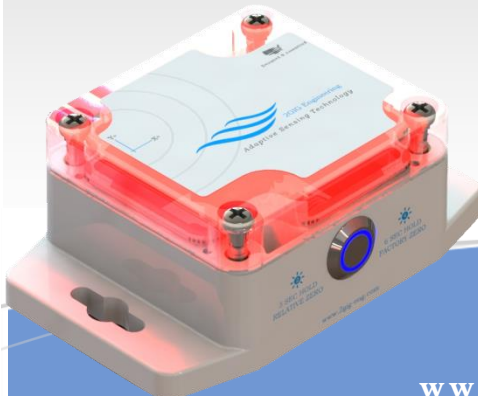
Custom filter using an advanced Kalman-based sensor fusion algorithm

### | RELIABILITY |

Polycarbonate enclosure with an epoxy encapsulated PCB allow this sensor to withstand extremes

### | ACCURACY |

Excellent dynamic accuracy for challenging conditions.



>**Our CANBUS tilt sensor is the number one solution** for any CAN-based angular measurement application. Whether you simply need to obtain tilt readings or control inclinometer outputs via CAN communication, the CANBUS inclinometer is designed to be the perfect fit-and-forget solution or drop-in replacement.

- 0.1° Accuracy, 0.01° Resolution
- Single axis range of  $\pm 180^\circ$
- Dual axis range of  $\pm 90^\circ$
- J1939 and CANOPEN protocols available
- Horizontal or Vertical Mount Options
- Relative Zeroing Button or Zero by command
- Easy Installation, no moving parts or maintenance

>**Rugged and robust design** built with materials chosen for their ability to survive the harshest of environments and operating conditions. Featuring an anti-fungal housing with a protection class rating of IP67, these inclinometers are guaranteed to work with the highest accuracy in any industrial condition.

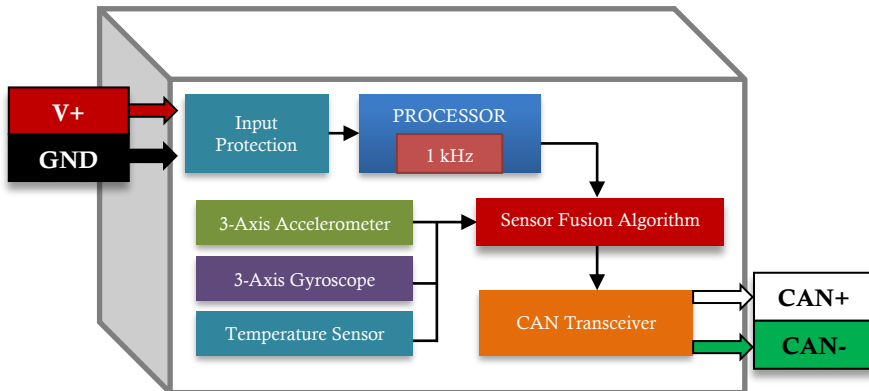
>**Flexible lead times and top notch customer service** allows us to put a 2GIG inclinometer in your hands when you need it. Our rapid communication and “on demand” supply method eliminates long lead times and ensures every customer is treated as the highest priority.

[www.2gig-eng.com](http://www.2gig-eng.com)

| 194 Main Road, Abbot, Maine USA 04406 | 207.876.4800



# CANBUS Series MEMS Inclinometer



## LEVELING THE WORLD

The CANBUS Inclinometer has a wide array of uses. Our team of engineers can work with you in order to create the sensor that fits your application. Whether its legacy units, drop-in replacements, or new applications, 2GIG can provide the correct settings for your application.

### Input Protection Circuitry

- Reverse Polarity Protected
- Overvoltage Protected up to 60VDC
- CE Compliant Protection – Resists surges up to 500V and 250A

### Sensor Fusion Algorithm

Our advanced algorithm provides excellent dynamic accuracy for high vibrate and high acceleration conditions.

### CAN Transceiver

The output from the CAN transceiver conforms to CAN 2.0B Active Specification. The pitch and roll readings from the sensor fusion algorithm are transmitted through each CAN protocol as 16-bit values with 0.01° resolution.

## AERIAL LIFTS



## CONSTRUCTION



## MARINE



## AUTOMATION



## AGRICULTURE



## INDUSTRIAL



## Customize your inclinometer

- Marine-Grade Stainless or Aluminum enclosures
- Wiring or connector options
- Use as a receiver for our wireless packages
- Custom protocols to match customer specifications
- Daisy chain capable
- Use for long distance runs while providing alternative outputs as necessary
- Add outputs: ie 0-5V, 4-20mA, Relay, RS232, UART

[www.2gig-eng.com](http://www.2gig-eng.com)

| 194 Main Road, Abbot, Maine USA 04406 | 207.876.4800

