

## 4-20mA Series MEMS Inclinometer

The 2GIG 4-20mA 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 |

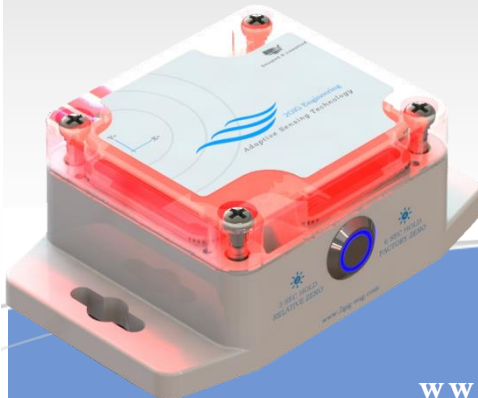
Custom filter using an advanced Kalman-based sensor fusion algorithm

#### | RELIABILITY |

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

#### | ACCURACY |

Excellent dynamic accuracy for challenging conditions.



>Our 4-20mA tilt sensor is the number one solution for any angular measurement application. Whether you simply need to obtain tilt readings by pairing with our HMI's or tie into a PLC, the 4-20mA inclinometer is designed to be the perfect fit-and-forget solution or drop-in replacement.

- 0.1° of Accuracy with 16-Bit Resolution
- Temperature Compensated
- Single Axis Tilt Measurement Range:  $\pm 0.5^\circ$  to  $\pm 180.0^\circ$
- Dual Axis Measurement Range:  $\pm 0.5^\circ$  to  $\pm 90.0^\circ$
- Horizontal or Vertical Mount Options
- Relative Zero Button (stores in memory)
- No moving parts or maintenance
- Simple Installation

>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.

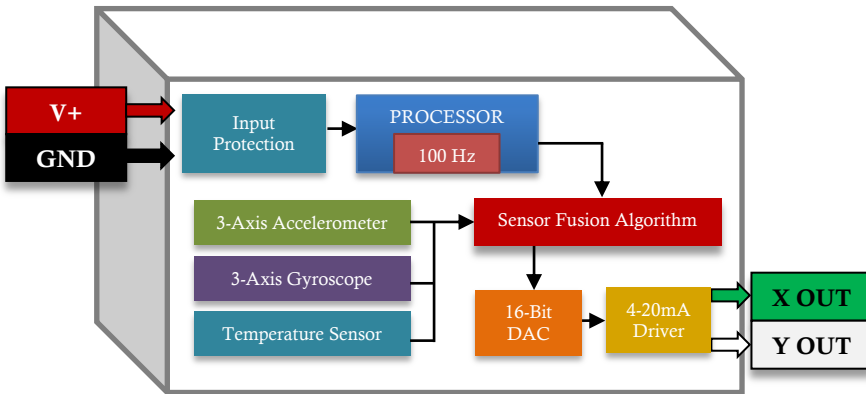
>Flexible lead times and top notch customer service allows us to put a 2GIG inclinometer in your hands when you need it. Our rapid communication and "on demand" supply method eliminates long lead times and ensures every customer is treated as the highest priority.

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

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# 4-20mA Series MEMS Inclinometer



## LEVELING THE WORLD

The 4-20mA 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.

## AERIAL LIFTS



## CONSTRUCTION



### 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 vibe and high acceleration conditions.

### 16-bit DAC

The high resolution provides the user with a low tolerance signal which can detect tilt movement as low as 0.01°.

### 4-20mA Driver

The 4-20mA driver directly converts the 16-bit DAC signal to a precision 4-20mA signal. The result can then be measured by the user or a PLC by measuring the 4-20mA current draw across an attached load resistor.

## MARINE



## AUTOMATION



## AGRICULTURE



## INDUSTRIAL



## Customize your inclinometer

- Marine-Grade Stainless or Aluminum enclosures
- Wiring or connector options
- Pair with our HMI's for angular readout
- Use as a receiver with our wireless transmitters
- Add CANBUS or a programming cable for field adjustments

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