

Dynamic Tilt Angle Sensor

This inclinometer is suitable for tilt measurement in motion or vibration applications. Its sealed design ensures accurate measurement of roll and pitch angles even in harsh environments.

VG50 Digital Dynamic Inclinometer

- Dynamic accuracy: 3 °
- Static accuracy: 0.3 °
- Tilt margin: Pitch $\pm 90^\circ$, Roll $\pm 180^\circ$
- Supply Voltage: 5V DC
- Vibration resistance: 2000g
- Broad temperature range: -40°C +85°C
- Protection level: IP67



Product Overview

High-Performance Dynamic Tilt Measurement

The Dynamic Tilt Angle Sensor is an advanced inclinometer engineered for accurate tilt measurement in motion or high-vibration environments. Designed for reliability, the sealed construction allows for precise monitoring of roll and pitch angles in demanding industrial settings. It serves as an ideal solution for complex applications including unmanned aerial vehicles, large maritime vessels, and autonomous driving systems.

Technical Specifications

Dynamic Accuracy

3 °

Dynamic Accuracy

0.3 °

Static Accuracy

Tilt Margin

Axis	Range
Pitch	$\pm 90^\circ$
Roll	$\pm 180^\circ$

Operating Environment

- Temperature range: -40 to +85
- Vibration resistance: 2000g
- Ingress protection: IP67

Physical Properties

Electrical Requirements	5 V DC
Physical Dimensions (L x W x H)	55 x 37 x 24 mm

Applications

Suitable Applications	Large Ships, Photoelectric Pods, Unmanned Driving, Automatic Artillery, Unmanned Aerial Vehicles
-----------------------	--