

SMCsensors S-108 series

Gyro Motion Sensor

SMC has developed the SMCsensor range of Gyro Motion Sensors to meet the requirements of the marine sector. With the use of the latest technology, high precision algorithms, and patented advanced software SMC motion systems provide quality, cost effective solutions for the most demanding environments.

The S-108 series measures

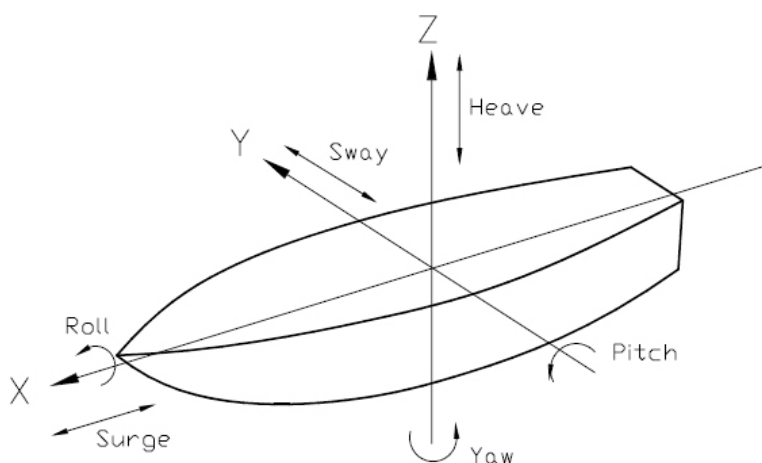
- Heave
- 2 Axis Angle measurements

The S-108 series measures roll and pitch and heave.

The SMCsensor range of Gyro Motion sensors uses the latest inclinometer technology with gyro to provide accurate, real time motion measurements with high dynamic accuracy during accelerations. The SMCsensor has high temperature stability.

SMC Calibration software makes the sensor installation simple and allows user configuration and set up of multiple parameters.

- High Accuracy roll, pitch and heave measurements.
- Real Time Data
- High Output Data Rate
- Multiple communications, RS232/RS422 (factory set)
- Windows based configuration software.
- Multiple output signal protocol
- Compact and Lightweight Design
- Low Power Consumption
- 2 Years Warranty



Technical Specifications

SMCsensor S-108 series	S-108	S-108 with heave
Roll / Pitch	X	X
Accelerations	N/A	N/A
Heave	N/A	X
Surge		N/A
Sway		N/A
Heading		N/A

Performance

Accuracy Roll/Pitch static	0.02° (RMS)	
Accuracy Roll & Pitch dynamic	0.03° (RMS)	
Resolution Roll & Pitch	0.001°	
Heave Accuracy	N/A	5cm or 5%
Acceleration / Shock	N/A	
Heading (compass)	N/A	

Communications

Calibration software	All sensors are shipped with SMC sensor setup windows based software allowing on site setup.	
Multiple output signal protocol	Various NMEA protocols Contact SMC for other protocols	
Multiple communications (factory set)	RS422 / RS232	
Connector	7 pin Amphenol connector	

Physical

Dimensions (W x H)	Ø89 (mounting plate Ø134) x 98 mm excl connector	
Weight	2 kg	

Environmental

Temperature	Operating temperature 0°C to + 65°C	
Power Supply	9-30 VDC	
Power Consumption	< 5 W	
Warranty	2 Years	

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