

## S-108 Motion Sensor

### Gyro Motion Sensor

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

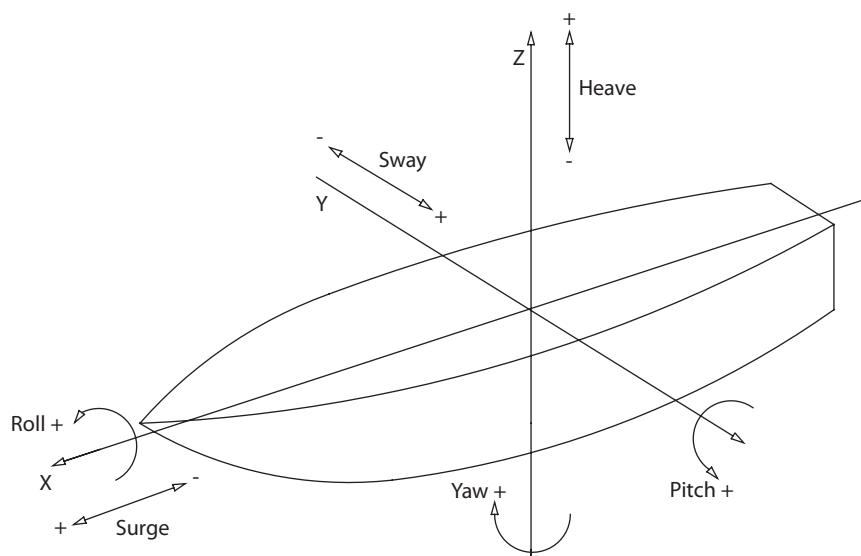
The S-108 Motion Sensor unit measures

- Heave/Surge/Sway
- Roll/Pitch
- Accelerations in X, Y and Z

The SMC range of Gyro Motion sensors uses the latest technology with gyros to provide accurate, real time motion measurements with high dynamic accuracy during accelerations. The SMC motion sensors have high temperature stability.

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

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



## Technical Specifications

<b>S-108 Motion Sensor</b>	
Roll / Pitch	Yes
Accelerations	Yes
Heave	Yes
Surge	Yes
Sway	Yes
Heading	N/A

## Performance

Accuracy Roll/Pitch static	0.02° (RMS)
Accuracy Roll/Pitch dynamic	0.03° (RMS)
Resolution Roll/Pitch	0.001°
Range Roll/Pitch	+/- 30 degrees
Heave/Surge/Sway Accuracy	5cm or 5%
Acceleration	0.01 m/s <sup>2</sup>
Heading (compass)	N/A

## Communications

Calibration Software	All sensors are shipped with SMC setup windows based software allowing on site setup.
Multiple output signal protocol	Various NMEA protocols Contact SMC for other protocols
Multiple communications	RS422 / RS232 (RS422 default)

## Physical

Dimensions (W x H)	Ø89 (mounting plate Ø134) x 120 mm excl connector
Weight	< 2kg

## Environmental

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



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