

Features

- Dynamic roll and pitch accuracy to 0.25
- IP65 rated
- Solid state angular rate gyros
- High dynamic accuracy during vessel turns

Benefits

- DMSView intuitive control software
- User-configurable outputs
- Real-time digital outputs
- Compact and lightweight

The DMS range of motion sensors has been designed specifically for the motion measurement needs of the marine industry. The DMS-RP25 DP meets the requirements of the dynamic positioning industry for accurate vessel roll and pitch measurement. The unit provides accurate motion measurement in all sea conditions.

Incorporating an enhanced external velocity and heading aiding algorithm for improved accuracy during dynamic manoeuvres, the solid state angular rate sensors offer reliability and a complimentary blending algorithm has proven that the DMS is the highest performance vertical reference unit ever produced by TSS.

The DMSView software programme is an intuitive Windows™-based programme enabling installation, set-up and integrity checking, and monitoring of the sensor. The user can select from a series of frequently used data protocols or configure a bespoke output from a selection of variables.

The DMS-RP25 DP is IP65 rated. The sensor can be supplied in various configurations for integration with towed vehicles and other bespoke applications. As with all TSS systems, the DMS is certified to meet all current and anticipated European legislation for electromagnetic compatibility and electronic emissions.



TSS DYNAMIC MOTION SENSORS

Dynamic accuracy	Roll & Pitch
	0.25°
	Amplitude $\pm 30^\circ$
Bandwidth	0 to 30 Hz
Data output rate (digital)	Up to 200 Hz
Available output parameters	Adjustable data packet output rate down to 1Hz Roll; pitch; angular rate X, Y, Z – acceleration X, Y, Z (body frame); angular rate east north, up – acceleration east, north, up (geographical frame); IMU temperature; surge; sway; sensor status; external speed; external heading; UTC time
Dimensions	172mm x 99mm diameter (excluding connector)
Weight	1.5Kg in air
Power supply	15-30 Vdc
Temperature range	0°C to 55°C
Power requirement	10-36V, <6.5W
Shock (survival)	30g peak 40ms half-sine
Vibration (operating)	30mm/s or 0.2mm, 7-300 Hz
Software interface (digital)	RS232 or RS422 (software selectable)
MTBF (computed)	50,000 hours
Warranty	12 months international warranty including parts & labour

Due to continuous development, specifications may vary from those listed above.

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