RSM 50

The RSM 50 is the smallest and most cost-effective of SOMAG's marine gyro stabilizers and targets the acquisition of perfectly stabilized offshore data. The Mount features a compact and light-weight design and suitable for deployment on USVs and small buoys for sensor stabilization up to ≤± 20.0° in the roll and pitch axis.

TECHNICAL SPECIFICATIONS

Angular Stabilization Ranges	Pitch at 0° Roll:	≤± 20.0°
	Roll at 0° Pitch:	≤± 20.0°
	Yaw (Drift):	no drift correction
Residual Deviation[1]		≤0.3° rms
Payload[2]		40 kg | 25 kg | 12.5 kg
		88 lbs | 55 lbs | 28 lbs
Continuous Torque		25 Nm
Dynamic Peak Torque[3]		50 Nm
Mass		11.5 kg | 24.3 lbs
Dimensions		197.5 mm | 7.8 in
		Ø306 mm | Ø12 in
IP Class		IP 67
Operating Temperature		-32 °C … +55 °C | -22 °F … +131 °F
Storage Temperature		-55 °C … +85 °C | -67 °F … +185 °F
Communication Interfaces		Ethernet | RS422 | RS232 (optional)
Operational Voltage		24 VDC (24…30 VDC)
Average Power Consumption[4] **at Operational Voltage**		50 W
Peak Power Consumption[4] **at Operational Voltage**		250 W
		IACS E10, DNV GL, 2006/42/EC Machinery

Preliminary data, subject to change.
The technical specifications in the metric system represent the binding reference values. The imperial units are rounded approximations and are provided for reference only.

[1] Vehicle motion ≤± 18° / 25°/s / 40°/s[2] – small periodical lateral accelerations (≤ 0.5 g) acceptable; constant lateral accelerations for more than 1 minute resulting from vehicle's turning maneuvers are compensated by internal or external GPS input. No GPS input could reduce the performance of the Mount during turning maneuvers.

[2] Possible payload weight depends on lateral acceleration and CoG of payload / shown data is based on 0.9 g lateral acceleration and a CoG payload offset to the Mount surface of: 250 mm (9.8 in) \| 400 mm (15.7 in) \| 500 mm (19.7 in)

[3] Maximum duration 90 s at 55 °C surrounding temperature \| longer if temperature inside the unit is < 55 °C

[4] Horizontal payload CoG offsets are not considered; without wind force and other possible external forces

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RSM 50
RUGGEDIZED
STABILIZATION MOUNT

COMPACT AND LIGHTWEIGHT DESIGN
suitable for deployment on USVs and small buoys

IP 67
for high performance stabilization in rough maritime environments

INSTALLATION FLEXIBILITY
upside-down hanging application possibility

ETHERNET INTERFACE
for integration in ship's infrastructure

Field of Application

MARINE

Application Examples

Antenna System

LiDAR System

SCAN ME.

Scan this QR-Code with your phone to get further information about the RSM 50 - Marine.

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