

GYRO-STABILIZED MOUNT

GSM 3000

SPECIFICATIONS

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Specifications



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Angular stabilization ranges: arbitrary horizontal axis <ul style="list-style-type: none"> - Pitch – at 0 deg Roll - Roll – at 0 deg Pitch - Yaw (Drift) 	$\geq \pm 5$ deg $\geq \pm 8.4$ deg $\geq \pm 6.2$ deg $\geq \pm 25$ deg		
Compensable angular rates	15 deg/s typical (≥ 10 deg/s at -25 °C)		
Degree of stabilization of the horizontal axes (Angular rate of base plate ± 10 deg/s at 0.5 Hz)	$\geq 50 : 1$ (rms : rms)		
Residual angular rate of the horizontal axes (Angular rate of the base plate ± 10 deg/s at 0.5 Hz)	≤ 0.2 deg/s rms		
Compensable angular acceleration <ul style="list-style-type: none"> - at a residual angular rate of ≤ 0.3 deg/s rms - at a residual angular rate of ≤ 1 deg/s rms 	≥ 110 deg/s ² ≥ 300 deg/s ²		
Deviation from perpendicular <ul style="list-style-type: none"> - without IMU - with IMU (accuracy depends on IMU) 	≤ 0.8 deg rms typically ≤ 0.2 deg rms typically		
Payload	20 ... 100 kg		
Operational voltage	28 VDC (24... 30 VDC)		
Power consumption	90 W typical, 300 W max.		
Main fuse	15 Amps circuit breaker		
Operating temperature	- 25 °C ... + 40 °C		
Storage temperature	- 50 °C ... + 70 °C		
Hydraulic Oil	AeroShell Fluid 41		
Mass	Approx. 35 kg		
Dimensions (Horizontal position, hydraulic system at operational elevation)	Length	Width	Height
	620	560	187**
	mm	mm	mm

* = Preliminary data, Subject to change

** = 162 mm if oil drained off