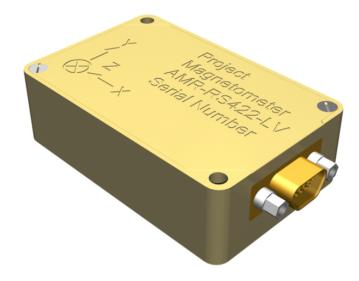
AMR MAGNETOMETER



The ZARM-Technik AMR Magnetometer is a microcontroller based Magnetometer, designed to measure the external magnetic field vector for satellite attitude determination and control. An integrated set of orthogonally arranged Anisotropic-Magnetoresistive (AMR) sensors is used to measure the magnetic field in all three directions, X, Y and Z.

Parameter	Digital AMR-MAG	Tolerance, remark
Number of Axes	Three, orthogonal	
Axial Alignment	≤ 1 °	
Field Measurement Range	± 200 μT	
Scale Factor / Sensitivity	10 nT / bit	The Sensor Sensitivity is 8.5 nT
Scale Factor Drift	< 100 ppm / °C	
Zero Field Drift	< ± 5 nT / °C	
Zero Field Bias	< ± 350 nT	
Linearity	< ± 0.1 % (-100 to +100 μ T)	
Accuracy	< ± 1 % (-100 to +100 μ T)	
Sampling Rate	50, 100, 200 and 300 Hz	Software selectable
Output Rate	1 to 6 Measurements/Sec.	
Supply Voltage	+6 V to +16 V	
Interface-Communication	Serial: RS422	Full Duplex
Baudrate	19200 Baud	
Power Consumption	< 0.3 W @ 12 V	
Temperature Range	-30 °C to +60 °C	Operating
	-40 °C to +85 °C	Non-Operating
Dimensions	56 x 36 x 17 mm	
Mass	≤ 60 g	Housing-thickness 3 mm
Connector	9pin female micro miniature	
	(MDM)	
EEE Parts	CotS	No radiation data available