

# MAGNETOMETER

Space qualified

# MAG28

Lusospace' MAG28 magnetometer is an ideal solution for attitude reference in LEO missions. It provides 3 axis analogue readings of the surrounding magnetic field, and it is housed in a compact enclosure for easy integrations.

The MAG28 magnetometers are in-house designed, manufactured and calibrated, and they can be customized to meet mission requirements.



## Main Features

- AMR Technology
- Compact
- Analogue interface
- Low Cost, Low Power
- Low Mass, Low Volume
- Customizable
- Test connector

## Heritage

Reference missions: PROBA-2, AEOLUS, RADARSAT, PRISMA and more.

## Qualification

Fully qualified for space applications according to ECSS (ESA) standards and MIL standards.

## Specifications

Dynamic Field Range	+/- 70000 nT
Noise (2 Sigma)	<= 40 nT
Offset	<= 500 nT
Linearity	< 0.2% (full scale)
Bandwidth	<= 50 HZ
Reliability (MTBF)	> 1.4 Mh
Supply Voltage	15V to 40V
Power consumption	<1.0 W
Output swing (analogue)	+/- 5V (customizable)
Test connector	Full scale
Temperature	Customizable
Mass	300g
Dimensions (LxWxH)	85x53x60 mm (excl. connectors)
Mounting bolts	4 x M4
Operating Temperature	-30 C to + 60 C
Non-operating temperature	-40 C to + 70 C
Radiation Hardness	Up to 50 kRad
EMC	CE (Conducted Emissions) CS (Conducted Susceptibility) RE (Radiated Emissions) RS (Radiated Susceptibility) ESD