

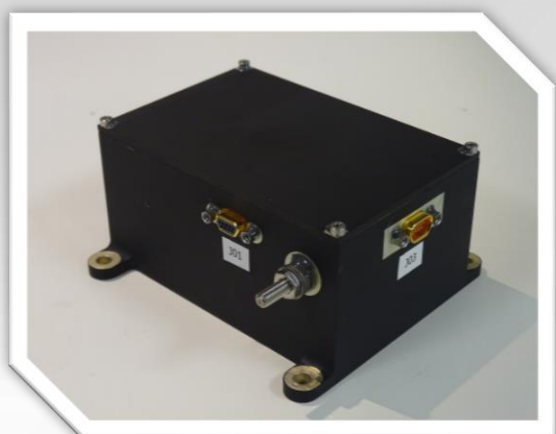
# MAGNETOMETER

Space qualified

# MAG15

Lusospace' MAG15 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 MAG15 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: Sentinel (all), Sentinel 3 (all), Sentinel 5p, SEOSAT, CHEOPS, BIOMASS and more.

## Qualification

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

## Specifications

Dynamic Field Range	+/- 64000 nT
Noise (3 Sigma)	$\leq 3 \text{ nT} / \sqrt{\text{Hz}}$
Offset	$\leq 500 \text{ nT}$
Linearity	$< 0.2\%$ (full scale)
Bandwidth	$\leq 50 \text{ Hz}$
Reliability (MTBF)	$< 100 \text{ FIT @ } 30^\circ\text{C}$
Supply Voltage	+/-15V
Power consumption	$< 1.0 \text{ W}$
Output swing (analogue)	+/- 5V (customizable)
Test connector	Full scale
Mass	$< 260 \text{ g}$
Dimensions (LxWxH)	83x90x45 mm (excl. connectors)
Mounting bolts	4 x M4
Operating Temperature	-40 C to + 70 C (Qualification)
Non-operating temperature	-50 C to + 80 C (Qualification)
Radiation Hardness	Up to 50 kRad
EMC	CE (Conducted Emissions) CS (Conducted Susceptibility) RE (Radiated Emissions) RS (Radiated Susceptibility) ESD (Radiated & Conducted)