

# DMAG15



## Main Features

- AMR Technology
- Compact
- Digital interface
- Low Cost, Low Power
- Low Mass, Low Volume

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

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

Performance Specifications	
Dynamic Field Range	+/- 65000 nT
Noise (3 Sigma)	<= 20 nT (1 $\sigma$ )
Offset	<= 500 nT
Linearity	< $\pm$ 0.2% (full scale)
Bandwidth	<= 50 HZ

Electrical Specifications	
Supply Voltage	+28V or +5V
Power consumption	<1.5 W
Data Interface	RS485/422

Mechanical Specifications	
Mass	<= 300 g
Dimensions (LxWxH)	112x72x33 mm (excl. connectors)
Mounting I/F	4 x M4

Environmental Specifications	
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)

## Qualification

Under qualification for space applications according to ECSS (ESA) standards and MIL standards.