

DMAG



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 σ) |
| 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.