

Space Technology

AOCS-Components



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Magnetometer ACM for Small Satellites

The ACM is a high precision magnetometer and is developed in cooperation with Magson GmbH.

- Optimum between low mass/size, data quality and power consumption for attitude control Magnetometer for small and larger satellites
- Full MIL / space qualified electronics
- All components radiation hard or radiation tolerant available
- Field calculation with full calibrated data output
- Two different measurement modes
- Firmware upload capability
- Electronics and sensor are qualified according vibration specs for Ariane, Delta and Sojuslaunchers

Parameters**Data****Performance:**

Range	±60 000 nT (up to 140 000 nT on request)
Resolution	100 pT/LSB
Noise	< 50 pT/√Hz @ 60 000 nT
Linearity	0.025%

Mechanical:

Mass	< 280 g
Dimension (without connector)	138 mm x 55 mm x 39 mm

Electrical:

Voltage	16 V to 40 V
Power consumption	
Earth field	< 1.0 W @ 24 V
Full range	< 1.2 W @ 24 V

Data Interfaces:

RS485 (others on request)

General:

Operation temperature range	-20°C to +50°C
Non-operation temperature range	-30°C to +60°C
Design lifetime	7 years
Storage time	2 years

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