

NEWSPACE MARKET · COMPANY PROFILE

Magson
GmbH

Magson GmbH

Germany · magson.de

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as of 20 August 2026

Magson GmbH

Magson GmbH, headquartered in Berlin-Adlershof's science and technology park, develops and manufactures precision digital fluxgate magnetometers for both terrestrial and space applications. Their instruments feature vector-compensated ringcore sensors combined with downstream digital signal processing electronics, available in industrial-grade or fully space-qualified configurations. The company has contributed to 13 launched satellite projects, with their space-flight electronics integrated into 20 different instruments and subunits across multiple missions. In addition to magnetometers, Magson provides electronics development services including FPGA design and PCB manufacturing. Their portfolio spans geophysical survey instruments, shipborne and ocean-bottom magnetometers, gradiometers, and spacecraft attitude determination magnetometers.

This profile is generated from the live NewSpace Market catalogue. Specifications are as published by the manufacturer; every product links to a page where a request for quotation reaches the company directly.

SERVICES

Services

Custom Hardware Solutions Development Magson develops, manufactures, verifies, and delivers manifold hardware solutions based on solid technical expertise.	Electronics Development Service Magson offers electronics development, including FPGA design, PCB layout, and PCB manufacturing, with a focus on robustness, performance, and cost.
FPGA Development Magson specializes in FPGA development, focusing on Microsemi devices and implementing complex algorithms for instrument control and other applications.	Instrument Testing and Qualification Services Magson provides instrument testing and qualification services, including space-qualification campaigns, ensuring compliance with common space standards.
Space-Qualification Campaigns Magson conducts space-qualification campaigns for instruments, adhering to common space standards and specific mission requirements.	

Product catalogue



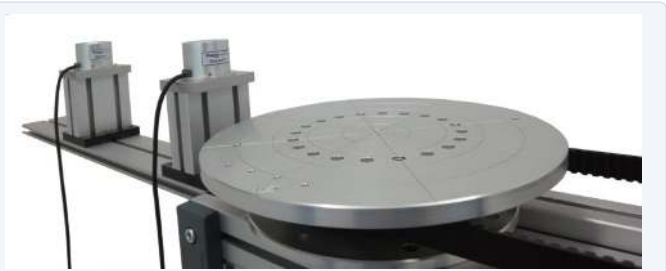
MAGSON GMBH

Data Logger

Linux-based multi-channel data logger for fast low-voltage and E-field measurements, including seafloor deployments.

Channels	3 channels
Sample rate	Up to 10 kHz
Measurement type	Fast E-field / low-voltage measurements
Time synchronization	Optional atomic clock for multi-unit sync without cabling
Operating system	Linux-based
Connectivity	Network interface with FTP server
Primary application	Sea floor E-field measurement, geophysical surveys

price on request [datasheet](#)



MAGSON GMBH

Gradiometer (MFG-2S)

Dual-sensor fluxgate gradiometer for detecting small-scale magnetic field anomalies and spacecraft magnetic moment testing.

Sensor configuration	Two independent fluxgate sensors in spatial gradient arrangement
Measurement type	Magnetic field gradient / anomaly detection
Primary use	Spacecraft magnetic moment determination, magnetic cleanliness testing
Known users	ESTEC (ESA), Thales Alenia Space
Base sensor noise	< 15 pT/sqrt(Hz) @ 1 Hz (per Magson fluxgate sensor design)

price on request [datasheet](#)

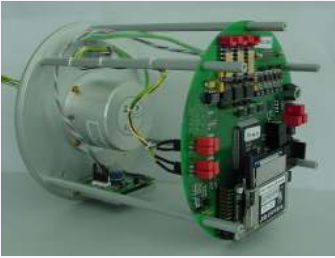


MAGSON GMBH
MACM Attitude Control Magnetometer

Compact tri-axial fluxgate magnetometer for LEO satellite attitude determination, 249 g, 28 V RS485 interface.

Supply Voltage	16–40 V (nominal 28 V)
Current Draw	30 mA
Power Consumption	0.86 W
Measurement Range	+/-120,000 nT
Resolution	228.88 pT/LSB
Noise (1 Hz)	< 200 pT/sqrt(Hz)
Linearity	+/-0.025%

[price on request](#) [datasheet](#)



MAGSON GMBH
Ocean Bottom Magnetometer

Titanium-encapsulated ocean bottom magnetometer with mass memory for submarine gas hydrate exploration and basic research.

Housing	Titanium pressure tube (deep-sea rated)
Data storage	Onboard mass memory
Optional extension	Inertial measurement unit (IMU)
Power	Battery-powered variant available
E-field sample rate (battery variant)	Up to 10 kHz
Primary application	Submarine gas hydrate exploration, marine basic research
Known operator	GEOMAR Helmholtz Centre for Ocean Research, Kiel

[price on request](#)



MAGSON GMBH

Science Magnetometer (Space Payload Fluxgate Magnetometer)

Space-qualified tri-axial fluxgate magnetometer used as a scientific payload instrument on spacecraft missions.

Sensor type	Tri-axial vector-compensated fluxgate (ringcore, dual crossed ringcores)
Noise level	< 15 pT/sqrt(Hz) @ 1 Hz
Long-term stability	Offset drift < 3 nT/year
Feedback coil material	Copper and aluminum (matched ~20 ppm/K thermal expansion)
Signal processing	FPGA-based instrument control and digital data processing
Interface	Serial interface (default), customizable protocols on request
Qualification	Fully space-qualified components, ECSS-compliant qualification

price on request



MAGSON GMBH

Ship-Board Magnetometer

Waterproof, thermally isolated dual-sensor magnetometer for geomagnetic vector measurement mounted on research vessels.

Configuration	Dual-sensor fluxgate magnetometer
Housing	Seawater-resistant, waterproof, thermally isolated
Thermal stabilization	Optional dedicated heating unit
Correction inputs	Ship IMU, sensor-internal inclinometer, GPS
Deployment	Hull-mounted on research vessels
Flight/field heritage	RV Polarstern, RV Sonne

price on request



MAGSON GMBH

Standard Fluxgate Magnetometer

Configurable industrial-grade tri-axial fluxgate magnetometer for terrestrial geophysical and field survey applications.

Sensor type	Tri-axial fluxgate, single or dual sensor configuration
Noise level	< 15 pT/sqrt(Hz) @ 1 Hz
Long-term stability	Offset drift < 3 nT/year
Data storage	Optional integrated flash memory for stand-alone operation
Optional sensors	Tilt meter, angular encoder, external GPS receiver
Extended controller	Linux-based processor with touchscreen GUI and TCP/IP interface
Thermal option	Temperature control unit for sensor and electronics

price on request



MAGSON GMBH

Tow Fish Magnetometer

Towed single or dual-sensor fluxgate magnetometer housed in a fiberglass tow fish for ocean floor magnetic surveys.

Configuration	One or two fluxgate sensors
Housing	Fiberglass tow fish body (Marine Magnetics)
Auxiliary sensor	Inclinometer
Power/data link	Umbilical tow cable
Primary application	Ocean floor magnetic signature survey
Field heritage	RV Sonne (BGR), Ben-Gurion University of the Negev

price on request

Contact Magson GmbH

Open the company profile on NewSpace Market to see full specifications and datasheets, and to send a request for quotation that reaches the manufacturer directly.

<https://newspacemarket.com/companies/magson-gmbh/>

<https://www.magson.de>

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