

NEWSPACE MARKET · COMPANY PROFILE



Bartington Instruments

United Kingdom · bartington.com

49

PRODUCTS

49

WITH DATASHEETS

newspacemarket.com/companies/bartington-instruments/

as of 24 August 2026

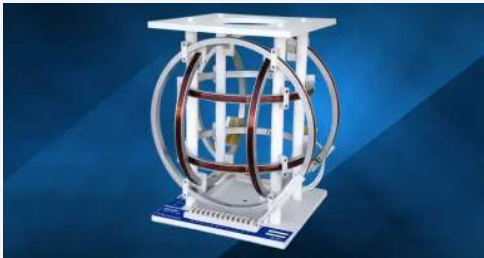


Bartington Instruments

Bartington Instruments designs and manufactures precision fluxgate magnetometers, gradiometers, magnetic susceptibility instruments, Helmholtz Coil systems, and associated data acquisition equipment. Their magnetometers measure the strength and direction of magnetic fields, for static and dynamic field measurements. These are used in applications including navigation, geophysical surveying, weather forecasting, border and perimeter security, mineral exploration, and scientific research. Bartington has been developing and manufacturing magnetic field sensors for almost 40 years, with products used globally in diverse environments including space, cryogenic environments, and ocean floors.

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.

Product catalogue

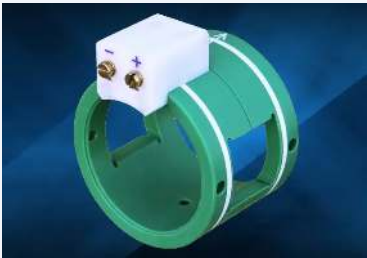


BARTINGTON INSTRUMENTS

BH300

A desktop-sized, lightweight set of Helmholtz Coils for laboratory and general-purpose use, generating stable magnetic fields in up to three axes.

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



BARTINGTON INSTRUMENTS

BHC-2 and BHC-2RF

These small, single axis Helmholtz Coils are designed to generate a magnetic field to calibrate sensors and meters in the field.

Max field strength	420µT
Mean electrical diameter	78mm

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



BARTINGTON INSTRUMENTS

BHC2000

These 2m three-axis Helmholtz Coils are used in the calibration of magnetic field sensors, and for conducting tests or experiments that require a known magnetic environment.

Number of Axes	3, 2, or 1
Orthogonality Error	<0.2°
Maximum field DC single axis	1.0mT
Maximum field DC single axis using PA1	300µT
Maximum frequency single axis using PA1	50 Hz
Isolation Voltage	100 V
Coil homogeneous volume (<1% error)	480 mm cube

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



BARTINGTON INSTRUMENTS

CryoMag®

CryoMag three-axis fluxgate magnetometers are designed for operation at temperatures as low as 2K, making them ideal for use in cryostats for superconducting radio frequency (SRF)

Operating temperature	down to 2K
Noise level	<20pTrms/√Hz at 1Hz
Frequency response	DC to 1kHz
Measuring ranges	±70, ±100, ±250 and ±500µT

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



BARTINGTON INSTRUMENTS

CU1

The CU1 is a control unit designed to interface between a PA1 and a National Instruments™ based control system for Helmholtz coils.

Supply output (magnetometer)	0 to ± 20 V
Supply output current limit (magnetometer)	100 mA
Supply output (auxiliary)	± 15 V
Supply output current limit per sensor channel (auxiliary)	50 mA

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



BARTINGTON INSTRUMENTS

CU2

The CU2 Closed-Loop Module provides active compensation for external DC and AC magnetic field variations, compatible with 3-axis Helmholtz coils.

DC disturbance field attenuation	-46dB ± 1 dB
Zero field DC drift over 6 hours	<100nT
Maximum field per axis	< ± 500 μ T

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



BARTINGTON INSTRUMENTS

DAS1

DAS1 is a versatile multi-sensor data acquisition system designed to sample and process measurements from multiple Bartington three-axis magnetometers.

Dimensions	740 mm D x 575 mm W x 424 mm H (1 Decaport, +44 mm for each additional Decaport)
Mass	47.5 kg
Number of input channels	10 three-axis magnetic field sensors
Signal input voltage	± 10 V differential or single-ended
Common mode input voltage	± 8 V: balanced / differential output sensors
Common mode input voltage (2)	± 3 V: single ended sensors
Absolute maximum input voltage	± 15 V on any input pin

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



BARTINGTON INSTRUMENTS

DAS3

DAS3 is a multi-sensor data acquisition system designed to sample and process measurements from multiple Bartington three-axis magnetometers, suitable for applications requiring ma

Dimensions	740 mm D x 575 mm W x 424 mm H
Mass	>80KG
Number of input channels	10 three-axis magnetic field sensors
Signal input voltage	± 10 V
Common mode input voltage	± 8 V
Absolute maximum input voltage	± 15 V
Sensor power output	± 12 V or ± 14 V

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



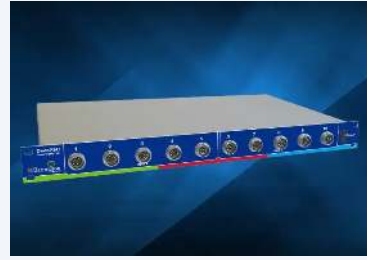
BARTINGTON INSTRUMENTS

Decaport

Decaport is an analogue interface module with 30 input channels, allowing connection of up to 10 three-axis sensors, primarily intended to support magnetic field sensors.

Number of input channels	10 three-axis magnetic field sensors
Signal input voltage	±10 V
Common mode input voltage	±8 V
Absolute maximum input voltage	±15 V
Sensor power output	±12 V or ±14 V
Filter Type	Butterworth 2-pole 12 dB per octave low pass
Frequency	10 kHz ,1 kHz, 100 Hz, 10 Hz

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



BARTINGTON INSTRUMENTS

DecaPSU

The DecaPSU is a low noise rack-mounted, mains powered power supply unit and analogue interface for up to ten Bartington Instruments single-axis or three-axis magnetic field sensor

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



BARTINGTON INSTRUMENTS

Degaussing Wand

A handheld wand for removing accumulated magnetic fields from magnetic shields or other equipment that has become magnetised.

Field generated	±100μT pk-pk at 300mm
Power	220V AC line powered

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



BARTINGTON INSTRUMENTS

DG-1

A compact 24-bit digitiser that converts the output signals of most Bartington analogue magnetometers, providing a USB interface to a PC for live readout and logging of digital data

Resolution	24-bit
Input Channels	3
Output	USB type-C
OS Compatibility	Windows 10 x64 (version 1607 and later), Windows 11 x64

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



BARTINGTON INSTRUMENTS

Grad-01-1000L

A single axis fluxgate magnetic gradiometer designed for use alone or as an element in an array for rapid data collection over large areas.

Resolution	around 50pT/m
Bandwidth	DC to 10Hz
Range	$\pm 100\text{nT/m}$ or $\pm 1000\text{nT/m}$

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



BARTINGTON INSTRUMENTS

Grad-13®

The Grad-13 is a digital three-axis gradiometer providing high resolution vector measurements of magnetic fields on land or in water, ideal for site and downhole surveying, and cab

Baselines	500mm to 1000mm
Versions	Land and submersible (200m)
Measuring range	± 70 or $\pm 100\mu\text{T}$
Accelerometer range	$\pm 2\text{g}$
Gradient noise	$< 25\text{pTrms}/\sqrt{\text{Hz/m}}$ at 1Hz with 500mm baseline

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



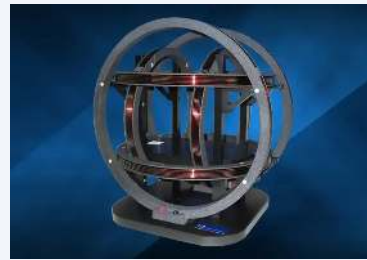
BARTINGTON INSTRUMENTS

HC1®

500mm Helmholtz Coil System, generating stable magnetic fields in up to three axes.

Number of axes	3
Parallelism	$< 1^\circ$
Orthogonality error	$< 0.1^\circ$
Maximum field (DC, X-axis) - continuous	706 μT
Operating temperature	$+15^\circ\text{C}$ to $+30^\circ\text{C}$
Coil Effective Diameter	507 mm $\pm$ 1 mm
Dimensions	674 mm H x 584 mm W x 642 mm D

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



BARTINGTON INSTRUMENTS

HC16

A 350mm Helmholtz Coil System designed to generate stable and homogeneous magnetic fields in up to three axes for various applications, including satellite sensor calibration.

Number of axes	3
Parallelism	$< \pm 1^\circ$
Orthogonality error	$< 0.1^\circ$
Maximum field (DC, Z-axis) - continuous	2.8mT
Coil homogeneous area ($< 0.1\%$ error)	40 mm diameter sphere
Coil homogeneous area ($< 1\%$ error)	65 mm diameter sphere
Coil homogeneous area ($< 5\%$ error)	100 mm diameter sphere

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



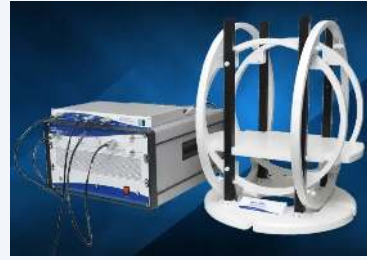
BARTINGTON INSTRUMENTS

HC2®

The HC2 Helmholtz Coil System generates stable and homogeneous magnetic fields in up to three axes, comprising a 1000mm diameter HC2 Helmholtz Coil, PA1 and CU1.

Number of axes	3
Parallelism	<±1°
Orthogonality error	<0.1°
Maximum field (DC, Y-axis) - continuous	446μT
Operating temperature	+15°C to +30°C
Storage temperature	+10°C to +40°C
Dimensions	1226 mm H x 1136 mm W x 1226 mm D

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



BARTINGTON INSTRUMENTS

Helmholtz Control System

A complete control system offering active compensation and orthogonality correction for Helmholtz Coils.

Field strength ±1mT from DC to 440Hz

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



BARTINGTON INSTRUMENTS

Mag-01H D/I

The Mag-01H Declinometer/Inclinometer system provides rapid, reliable and accurate measurements of the declination and inclination of the geomagnetic field.

Accuracy	6 seconds of arc
Lifetime	20 hours
Number of axes	One
Measuring range	±0.2mT
Offset in zero field	±1nT
Offset temperature coefficient	0.01nT/°C
Maximum resolution	0.1nT

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



BARTINGTON INSTRUMENTS

Mag-01H®

A portable, high-performance single-axis fluxgate magnetometer with multiple probes for precision measurements of static and slowly varying magnetic fields.

Resolution	0.1nT
Measuring range	±0.1nT to ±2mT
Offset control	up to ±90μT in 10μT steps

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



BARTINGTON INSTRUMENTS

Mag-03®

The Mag-03® is a market-leading range of compact, high-performance three-axis fluxgate magnetometers with integral electronics for precision measurements of static and alternating

Noise levels	down to <6pTrms/√Hz at 1Hz
Measuring ranges	from ±70μT to ±1000μT
Bandwidth	to 3kHz
Output	three analogue voltages from 0 to ±10V

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



BARTINGTON INSTRUMENTS

Mag-03RCU

These three-axis range fluxgate magnetometers are designed for magnetic signature measurements and marine surveillance, operating over cables up to 2000m and submersible to 100m.

Measuring range options	±100μT, ±200μT or ±300μT
Bandwidth	DC to 3kHz
Cable lengths	up to 2km
Submersible depth	100m

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



BARTINGTON INSTRUMENTS

Mag-13®

High performance, low noise fluxgate magnetometers for accurate measurements of magnetic fields in various applications, including space.

Number of axes	Three
Full Scale Measuring Ranges	±70μT ±100μT ±250μT ±500μT ±1000μT
Scaling error	±0.5%
Linearity error	0.0015%
Frequency response at 50μT peak	DC to 1 kHz (±5%)
Noise: Standard	≤10pT rms / √Hz @1 Hz
Zero Field Offset	≤±30nT ≤±40nT ≤±50nT

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



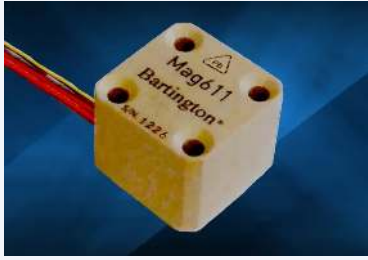
BARTINGTON INSTRUMENTS

Mag566

A low-cost miniature fluxgate magnetometer designed for low-power battery applications and multi-sensor arrays, offering high environmental protection and resistance to shock and v

Supply Voltage	±5V
Power Consumption	20mW
Measuring Range	±100μT
Bandwidth	0 to 30-40Hz

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



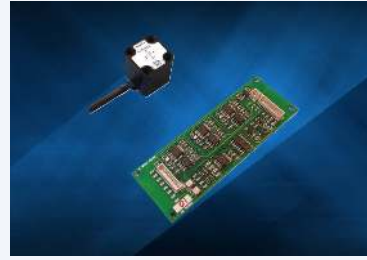
BARTINGTON INSTRUMENTS

Mag610/611

Three-axis fluxgate magnetometers operable at up to 215°C, designed to survive high levels of shock and vibration.

Operating temperature	0°C to +175°C
Bandwidth	>100 Hz
Measurement noise floor	≤300pTrms /√Hz at 1 Hz
Output scaling	113μT/mA typical
Scaling error	±5% at 25°C
Scaling temperature coefficient	<+150ppm/°C
Offset	±500nT max. at 25°C

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



BARTINGTON INSTRUMENTS

Mag612 Miniature

This miniature three-axis fluxgate magnetometer is designed for integration into systems requiring precision measurements where space is limited, such as mobile and wearable techno

Probe size	20 x 20 x 20mm
Noise specification	0 – 20pTrms/√Hz at 1Hz

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



BARTINGTON INSTRUMENTS

Mag613

An 8-sensor fluxgate magnetometer array designed for magnetic signature analysis of ship and submarine scaled models and simulating closed loop degaussing.

Range	±300μT or ±500μT
Bandwidth	6Hz

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



BARTINGTON INSTRUMENTS

Mag614 RTUDE

Room Temperature Unpackaged Drive Electronics for the Mag614-FL, designed to survive high levels of shock and vibration.

Supply voltage	±11 V to ±15.5 V DC
Operating temperature	-40°C to +65°C
Dimensions	90 x 85 x 30 mm
Mass	12.5 g

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



BARTINGTON INSTRUMENTS

Mag614-FL

Three-axis fluxgate magnetometer operating at up to 175 °C, ideal for integration into downhole tools and designed to withstand high levels of shock and vibration.

Number of axes	Three (right hand XYZ co-ordinate system)
Bandwidth (-3dB)	>3 kHz
Measurement noise floor*	15 to 300pTrms /√Hz at 1 Hz
Output scaling	105μT/mA typical
Scaling error	±5% at 25°C
Scaling temperature coefficient	<+100ppm/°C
Offset	±500nT max. at 25°C, when scaled for 100μT range electronics

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



BARTINGTON INSTRUMENTS

Mag619

This miniature fluxgate magnetometer is designed for integration into systems where space is limited, such as mobile and wearable technologies.

Small probe size	29x20x11mm
Noise level	>10pT to ≤50pTrms/√Hz at 1Hz

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



BARTINGTON INSTRUMENTS

Mag629

A packaged low-noise three-axis fluxgate magnetometer designed to meet the exacting environmental requirements of aerospace applications.

Number of axes	Three
Full Scale Measuring Range	±75μT
Bandwidth at-3dB	1.1 to 1.3 kHz
Scale factor	7.5nT/mV
Scaling Calibration Error	±0.75%
Linearity Error	<0.0015% of full scale at any point
Frequency Response	±1% DC to 100 Hz

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



BARTINGTON INSTRUMENTS

Mag639

This wide bandwidth fluxgate magnetometer offers measurements from DC to 12kHz of field strengths up to ±100μT, featuring a non-conductive cylindrical enclosure to prevent eddy cur

Bandwidth	DC to 12kHz
Noise level	<20pTrms/√Hz at 1Hz
Measuring range	±100μT
Environmental sealing	IP65

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



BARTINGTON INSTRUMENTS

Mag644

The Mag644 is a 24mm single axis fluxgate probe, unpackaged and lightweight, designed for integration into various systems.

Number of axes	One
Fluxgate Length	14 mm
Primary Resistance (Excitation)	$8\Omega \pm 1\Omega$
Primary Inductance (Excitation)	$650\mu\text{H} \pm 100\mu\text{H}$
Secondary Resistance (Detection)	$45\Omega \pm 1.5\Omega$
Secondary Inductance (Detection)	$5.2\text{mH} \pm 0.4\text{mH}$
Operating temperature	-20°C to $+70^\circ\text{C}$

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



BARTINGTON INSTRUMENTS

Mag646/710

The Mag646 and Mag710 are low cost, compact, and versatile three-orientation fluxgate magnetometers, ideal for OEM system integration and measuring static and alternating fields up

Frequency response	DC to 1kHz
Measuring ranges	$\pm 100\mu\text{T}$, $\pm 200\mu\text{T}$, $\pm 500\mu\text{T}$ or $\pm 1000\mu\text{T}$
Fluxgate element orientations	In-line, Diagonal or Right-angle

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



BARTINGTON INSTRUMENTS

Mag648 / Mag649®

The Mag648 and Mag649 are compact, low-noise, three-axis fluxgate sensors designed for magnetic field measurements from DC up to 1kHz, ideal for battery-powered applications.

Power consumption	<15mW
Noise (low noise version)	<10pTrms/√Hz at 1Hz
Bandwidth (Mag648)	to 30Hz
Bandwidth (Mag649®)	to 1kHz
Measuring range	$\pm 60\mu\text{T}$ or $\pm 100\mu\text{T}$

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



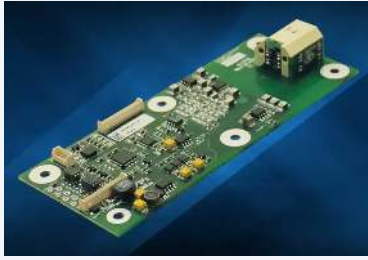
BARTINGTON INSTRUMENTS

Mag652

An ultra-low-power magnetic event sensor designed for remote, environmentally rugged locations where battery power is essential.

Sensitivity	>1nT
Current consumption	<700μA

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



BARTINGTON INSTRUMENTS

Mag658

The Mag658 is an unpackaged digital three-axis fluxgate magnetometer offering precise vector field measurements and integrated accelerometers for orientation data.

Number of axes	Three
Measuring range	$\pm 524.287 \mu\text{T}$
Bandwidth	$\geq 15 \text{ Hz } \pm 3 \text{ Hz}$
Resolution	62.5 pT/bit
Warm up time	15 mins
Offset	$\pm 100 \text{ nT}$
Scaling error	$\pm 0.5\%$

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



BARTINGTON INSTRUMENTS

Mag669®

Unpackaged low-noise three-axis magnetometer designed to meet the environmental needs of aerospace, ideal for vector compensation in airborne magnetometry.

Full-scale range	$\pm 75 \mu\text{T}$
Continuous operating temperature range	-55°C to $+55^\circ\text{C}$
Low noise	$< 5 \text{ pT}_{\text{rms}}/\sqrt{\text{Hz}}$ at 1Hz

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



BARTINGTON INSTRUMENTS

Mag693U

This ultra-low cost unpackaged 3-axis analogue magnetic field sensor is designed for cost-critical applications, allowing users to integrate it into their own systems due to its sm

Full Scale Measuring Range	$100 \mu\text{T}$
Scaling Calibration Error at 23°C	$< \pm 5\%$
Linearity Error	0.05% FS Range
Frequency Response	DC to 100 Hz
Bandwidth at -3dB	500 Hz minimum
Noise	> 10 to $\leq 150 \text{ pT}_{\text{rms}}/\sqrt{\text{Hz}}$ at 1 Hz
Zero-Field Offset	$< \pm 1000 \text{ nT}$

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



BARTINGTON INSTRUMENTS

Mag900/901

Low power 3-axis magnetometers for surveillance applications, offering high sensitivity magnetic field measurements within a narrow noise band.

Noise band	$\leq 10 \text{ pT}_{\text{rms}}/\sqrt{\text{Hz}}$ @ 1Hz (After magnetic settling time)
Measuring range	± 60 and $\pm 100 \mu\text{T}$

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



BARTINGTON INSTRUMENTS
Magmeter-2

The Magmeter-2 is a battery-powered unit designed for rapid monitoring of magnetic fields, providing filtered readings of a magnetometer's X, Y, and Z outputs on an LCD display pan

Resolution (up to $\pm 100\mu\text{T}$)	10nT
Resolution (up to $\pm 1000\mu\text{T}$)	100nT
Low-pass filtering	9.5kHz
High-pass filter	0.1Hz (selectable)

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



BARTINGTON INSTRUMENTS
Magnetic Shields

Cylindrical Mumetal magnetic field test chambers designed to attenuate the Earth's magnetic field, enabling precise measurements of remanent magnetism or sensor errors.

Inner bore diameter (TLMS-C100)	100 mm
Inner bore diameter (TLMS-C200)	200 mm
Internal diameters of shield layers (TLMS-C100)	100 mm, 120 mm, 140 mm
Internal diameters of shield layers (TLMS-C200)	200 mm, 220 mm, 240 mm
Internal length of cylinder (TLMS-C100)	250 mm
Internal length of cylinder (TLMS-C200)	400 mm
Overall size (TLMS-C100)	167 mm x 173 mm x 369 mm

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



BARTINGTON INSTRUMENTS
PA1

The PA1 Power Amplifier for Helmholtz Coils supplies the necessary current to generate required magnetic fields and applies a DC offset current to cancel ambient magnetic fields.

Operating temperature	+15°C to +30°C
Coil drive output	$\pm 25\text{V}$ (no load)
Maximum total output	29A (maximum 20A per axis)

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



BARTINGTON INSTRUMENTS
PSU1

A self-contained, portable, and easy-to-use power supply for most Bartington magnetometers, ideal for simple magnetic field measurements and acting as an AC filter for sensor output

Number of input channels	Three
Voltage input range	$\pm 10\text{ V}$
Frequency response (-3dB)	DC to 9.5 kHz (DC coupling)
Frequency response (-3dB) (AC coupling)	0.1 Hz to 9.5 kHz (AC coupling)
Frequency response error	DC to 6 kHz $\pm 2\%$
Internal measurement noise floor	<200nV/ $\sqrt{\text{Hz}}$ at 1 Hz (battery powered)
Internal measurement noise floor (2)	<500nV/ $\sqrt{\text{Hz}}$ at 1 Hz (with mains charger connected)

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



BARTINGTON INSTRUMENTS

SCU1

A mains powered combined power supply, display, and analogue conditioning unit for laboratory use with compatible Bartington Instruments' magnetic field sensors.

Number of input channels	Three (X, Y and Z)
Input signal range	± 10 V maximum
Common mode rejection ratio	>70 dB
Low-pass filter	1, 10, 100, 1000 or 10000 Hz
High-pass filter	0 (DC), 0.01 or 1.0 Hz
Gain	1, 50, 100, 300, 500 or 1000
Offset range	± 10 V

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



BARTINGTON INSTRUMENTS

Spacemag-Lite®

A highly capable three-axis fluxgate magnetometer designed for spaceflight applications, particularly suitable for low Earth orbit (LEO) missions where cost is critical.

Probe Width	20mm
Thermal Vacuum Testing	$<10^{-5}$ mbar
Operating Temperature (Thermal Vacuum)	-30°C to $+60^{\circ}\text{C}$
Operating Temperature (EMC Approved)	-40°C to $+65^{\circ}\text{C}$ (up to $+85^{\circ}\text{C}$)
EMC Approvals	BS EN61326

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



BARTINGTON INSTRUMENTS

Spacemag@-2

A highly capable three-axis fluxgate magnetometer designed for a variety of low Earth orbit (LEO) spaceflight missions, especially where cost is critical.

Sensor Head Width	20mm
Bandwidth	25-30Hz -3dB 0°C to $+30^{\circ}\text{C}$
Noise	$<20\text{pTrms}/\sqrt{\text{Hz}}$ at 1Hz

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



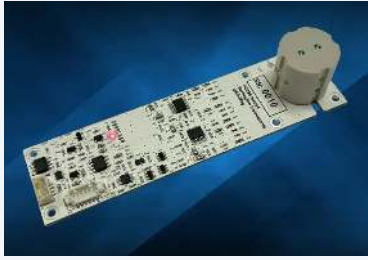
BARTINGTON INSTRUMENTS

Spectramag-6

This portable 6-channel 24-bit data acquisition unit is designed for the acquisition and synchronous digitisation of signals from magnetic field sensors, accelerometers or acoustic

Number of input channels	Six
Input signal range	± 10 V
Input frequency range	Up to 5 kHz
Resolution	24 bit
Sampling interval	$100\mu\text{s}$ (min) to 10 s (max)
Operating temperature	-10°C to $+50^{\circ}\text{C}$
Storage temperature	-20°C to $+70^{\circ}\text{C}$

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



BARTINGTON INSTRUMENTS

UAS-Mag®

A 3-Axis fluxgate magnetometer with a DroneCAN (UAVCAN) communication interface, designed especially for use on UAS platforms.

Number of Axes	Three
Maximum Measuring Range	$\pm 105 \mu\text{T}$
Scaling Calibration Error	$< \pm 0.5\%$
Linearity Error	$< 0.02\%$
Bandwidth at -3dB	$> 300 \text{ Hz}$
Noise Floor	$\leq 20 \text{ pT rms/Hz @ } 1 \text{ Hz}$
Zero Field Offset	$< \pm 200 \text{ nT}$

price on request

[datasheet](#)

Contact Bartington Instruments

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/bartington-instruments/>

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