

# BartingtonNews

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the Newsletter from Bartington Instruments

## Covid-19 Ventilator Award

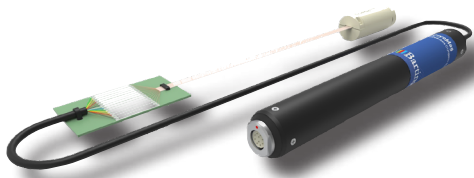


Our MS3 meters and MS2B sensors are used to aid ventilator production, which has been vital during the Covid-19 pandemic. With patients wearing ventilators throughout their treatment, ventilators may be used in MR environments. It is essential to ensure that components used in ventilator masks are non-magnetic.

The MS3 and MS2B measure the magnetic susceptibility of the components, to check that they are safe to use. This is a crucial step, as supply chains have been expanded during this period of increased demand.

The plaque was award by Ventilator Challenge UK, Smiths Medical and the UK Government Cabinet Office. We were pleased to be of assistance where we could.

## CryoMag 3-Axis Magnetometer



CryoMag is a new sensor that provides high precision measurements of static and alternating magnetic fields at temperatures down to 2K. It is vacuum compatible, offers noise levels below  $20\text{pT}_{\text{rms}}/\sqrt{\text{Hz}}$  at 1Hz, a frequency response from DC to 1kHz ( $\pm 5\%$ ), and measuring ranges from  $\pm 70\mu\text{T}$  to  $\pm 500\mu\text{T}$ .

CryoMag is ideal for use in quantum computing applications, cryostats for superconducting radio frequency cavities, and other low temperature environments.

This product is now available to order.

## MS2 Helps Reduce Herbicide Doses

Sao Paulo State University has discovered that using Bartington's MS2B sensor and MS3 meter to measure soil magnetic susceptibility (MS) reliably predicts the adequate dosage for the herbicide imazaquin.

The MS2B and MS3 make possible low-cost soil analysis and farmland mapping, via quick, easy and non-destructive testing, without previous sample preparation.

Correlating imazaquin absorption with soil MS results in reduced losses, and reduced environmental contamination by minimizing the use of this herbicide.

To learn more, see [www.bartington.com/ms2-ms3](http://www.bartington.com/ms2-ms3)



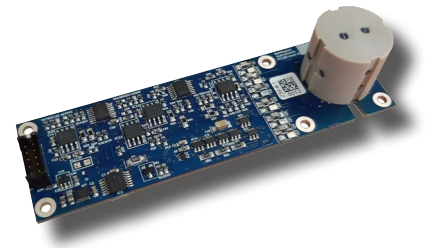
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# Mag 900/901 Low Power 3-Axis Magnetometers

Priced at less than £200, these low power magnetometers are available with noise levels down to  $<10\text{pTrms}/\sqrt{\text{Hz}}$  at 1Hz, bandwidth to 1kHz, and measuring ranges from  $\pm 60$  to  $\pm 100\mu\text{T}$ .

The Mag900/901 units are supplied unpackaged for easy integration into multi-sensor systems. Their exceptionally low power consumption makes them ideal for surveillance and perimeter security applications, including detection of vehicles and personnel, and for extended deployment in remote locations.



To learn more, see [www.bartington.com/mag900-901](http://www.bartington.com/mag900-901)

## New Sensor Developed for Anti-poaching



Working with the Zoological Society of London (ZSL), we have developed the Mag652 to integrate into ZSL's Instant Detect 2.0 system. The system comprises a network of covert cameras and sensors to quickly alert rangers to illegal activity. It will be deployed in remote locations, where poachers may enter wildlife reserves.

The Mag652 can accurately detect vehicles, and people carrying weapons. It can also help to discriminate between animal and human movement. The resulting reduction in false alerts increases the effectiveness of the system and reduces operating costs.

To learn more, contact [sales@bartington.com](mailto:sales@bartington.com)

## New 24-bit Sensor Digitiser

We are pleased to announce DG-1, a new digitiser designed to convert the output signals from most Bartington analogue magnetometers to digital format. DG-1 has a resolution of 24-bits, data averaging, and adjustable low-pass filter. It also supplies power to the sensor.

DG-1 is a small device, measuring just 82mm long. It can be connected to a computer or a handheld Gaussmeter via USB, for live input of digital data.

DG-1 will be available in Spring 2021.

To learn more, contact [sales@bartington.com](mailto:sales@bartington.com)



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