

Innovation in Magnetic Measuring Instruments



Open-end Magnetic Shield

Very Low Magnetic Field Test Facility

Bartington®
Instruments

Open-end Magnetic Shield

The Bartington Instruments Open-end Magnetic Shield is a three layer mu-metal (an annealed alloy of 80% nickel, 4.5% molybdenum and the balance iron) cylinder that protects its contents from a strong external magnetic field by diverting the lines of magnetic flux around it.

The Open-end Magnetic Shield will typically attenuate the Earth's field of ~50,000nT to a level of 1nT, transverse to the axis of the shield, when used in the recommended east-west orientation. This enables the user to measure remanent magnetism in small components or errors in magnetic sensors.

Even small inhomogeneities or stresses in the shield can lead to low level magnetism accumulating inside the cylinder. This can be removed with the Bartington Instruments Degaussing Wand, which ensures that the field inside the cylinder is as close as possible to zero before critical measurements are made.

Features

- Three-layer cylinder with open ends for easy access.
- Will typically attenuate the Earth's field of ~50,000nT to a level of 1nT.
- Guide rails to support test probe fitted inside the cylinder.

Typical applications

- Measurement of zero-field offset errors in magnetic sensors.
- Remanent magnetisation measurements.

Open-end Magnetic Shield Specification

Shield details	
Type	triple layer
Shielding material	mumetal
Seams	6mm overlap
Ends	both open
Cylinder internal diameters	100mm, 120mm, 140mm
Length of cylinders	300mm (all cylinders equal)

External case	
Material	anodised aluminium
Overall size (approximate)	221mm x 221mm x 310mm
Weight	6.25kg



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