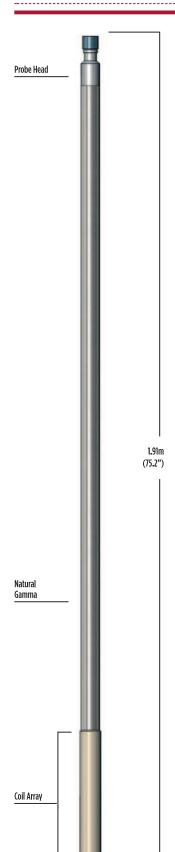
PROBES

MAGNETIC SUSCEPTIBILITY





The Magnetic Susceptibility probe is based on the industry-standard Bartington Instruments™ product.

It is a low-frequency device and is specifically designed for mining applications. The probe has excellent stability against pressure and temperature variations.

Principle of Measurement:

An oscillating magnetic field in the probe produces a current within a toroidal zone in the surrounding formation. The oscillating current produces a secondary field that is detected by the receiver coils. The 'quadrature' signal is a measure of susceptibility.

SPECIFICATION:

Features

Operates in dry or water-filled boreholes

Unaffected by plastic casing Ideal for use in small-diameter exploration boreholes Excellent thermal/pressure stability across specified operating range

Measurements

Magnetic susceptibility

Natural Gamma

Applications

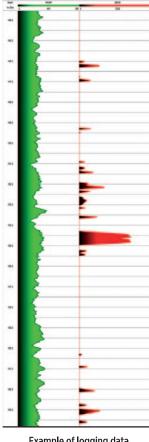
The probe has particular use for detecting uranium where the log shows a negative correlation with uraniferous compounds. Susceptibility logs are highly sensitive to iron and show large contrasts according to its oxidation state. The frequent occurrence of iron with other redox-sensitive metals can provide a valuable indicator of the presence of other minerals.

Operating Conditions

Borehole type:	open/cased (plastic), water/air-filled
Centralisation:	fin stand-off recommended
Recommended Logging Speed:	3m/min

Specifications	
43mm	
1.91m	
5.5kg	
0-70°C (extended ranges available)	
20MPa	
1.439kHz	
10 ⁻⁵ to 10 ⁻¹ cgs (Gaussian)	

1002095	Magnetic Susceptibility probe with natural gamma



Example of logging data

CLICK HERE **FOR ENQUIRY FORM**