

Magnetic susceptibility is a physical parameter that can provide useful information in a number of geological contexts and is of particular interest for mining exploration and development. Applications include uranium and iron ore (BIF) exploration and cases where high-susceptibility minerals such as magnetite are associated with a primary target mineral, as well petrological studies.

The **MAG38** probe incorporates a high performance, dual-coil antenna system developed in-house. This low-frequency electromagnetic device ensures a stable response over a wide range of temperature and pressure conditions. The received signal is digitised at two sensitivity levels to optimise use in both low and high susceptibility operating conditions.

As an option, the probe can be supplied with a natural gamma detector to provide additional lithological information or for horizon correlation purposes.

Specifications

- ✓ Diameter (sensor /tool body): 38 mm 1.5"
- ✓ Length: 1960 mm 77.2 "
- ✓ Weight: 7 kg 15.4 lbs
- ✓ Max. operating temperature: 70°C 158°F
- ✓ Max. operating pressure : 200 bar 2900 psi
- ✓ Housing type: stainless steel and fibreglass
- ✓ Power supply: 70 to 100 Vdc

Data / sensor parameters

- ✓ TX - RX spacing: 50 cm 20"
- ✓ Measurement frequency: 2 kHz
- ✓ Measurement range: 10⁻⁴ to 0.5 SI units
- ✓ Resolution: 6 µSI units

Accessories / options

- ✓ Natural gamma detector: ø25 x 50 mm NaI(Tl) crystal
- ✓ Field check jig

Borehole conditions

- ✓ Open or PVC-cased borehole
- ✓ Fluid filled or dry borehole

