



BMS-01 BOREHOLE MAGNETIC SUSCEPTIBILITY PROBE

DESCRIPTION

The BMS-01 magnetic susceptibility probe is contained in a 40 mm diameter non-magnetic housing which is pressure rated to 2,000 meters.

The sensor is controlled by an on-board microprocessor that samples the sensor signal at a rate of 2 Hz and transmits the digital result along a 4 conductor logging cable to the IFG BIN-04 digital data interface console.

The BMS-01 sensor is a single coil design 40-cm in length, operating at a frequency of 1.4 kHz. The single coil design produces a single peak response.

The minimum resolvable layer thickness of the sensor is 25 cm. The range of the coil is 10^{-5} to 10^{-1} cgs in units of 1×10^{-5} cgs. An available calibration source permits the absolute calibration of the BMS-01 for various borehole diameters.

PROBE SPECIFICATION	
Sensor Range	10^{-5} to 10^{-1} cgs
Sensitivity	10×10^5 cgs
Housing	High strength filawound tube
Maximum Depth	3000 meters
Connection	4-pin (Gearhardt Owen)
Temperature Range	Storage: -35 to +70°C Operating: 0 to +70°C Extended: 0 to +120°C
Sampling Rate	2 Hz
Output	10mA current loop, 4800 baud
Supply Voltage	48 VDC @ 5W (at probe header)
Dimensions	40mm diameter x 1.2 meters long
Weight	4 kg