BIC-02 BOREHOLE INDUCTIVE CONDUCTIVITY PROBE

DESCRIPTION

The BIC-02 inductive conductivity probe is contained in a 40 mm diameter non-magnetic housing which is pressure rated to 3000 meters. The probe is controlled by an on-board microprocessor, that samples the three sensors at a rate of 2 Hz and transmits the digital results along the 4 conductor logging cable to the BIN-04 digital data interface console.

The BIC-02 sensor array is a three-coil design. The sensors spacing are 33, 66 and 100cm separation from the transmitter and an operating frequency of 80 kHz. The sensors minimum resolvable layer thickness is 33cm. The range of the coil is 0.1mS to 10s/m. For very high conductivities we recommend the single coil conductivity probe (BIC-01). This probe is available for the measurement of massive sulphides and for ore grade estimations.

SPECIFICATION	
Sensor Design	Three coil AC induction, 33, 66, 100cm spacing
Operating Frequency	80 kHz
Sensitivity	0.1 mS/m
Sample Period	0.5 sec.
Probe Housing	High strength filawound tube
Maximum Depth	3000 m for 42mm housing 1500 m for 40mm housing
Connection	4-pin connector (Gearhardt Owen)
Temperature Range	Storage: -35°C to +70°C Operating: 0°C to +70°C Extended : 0°C to +120°C
Output	10mA current loop, 48 baud
Supply Voltage	44 to 52 V dc
Probe Dimensions	40mm diameter x 215cm long
Probe Weight	4.2 kg