BRS-02 BOREHOLE MULTIPLE ARRAY RESISTIVITY PROBE

DESCRIPTION

The BRS-02 resistivity probe is contained in a 42-mm diameter non- magnetic and non- conductive housing, that is pressure rated to 3,000 meters of water depth. The probe is controlled by an on- board microprocessor that samples the electrical potential between the two electrode arrays at a rate of 2 samples per second.

The potential range of the measurement is +/-50V and has a resolution of 0.1mV. The digital data is then transmitted along a 4 conductor logging cable to the surface, to the data interface (BIN-04). The BRS-02 resistivity probe has the constant current generator build into the probe.

This probe has a true normal array configuration. The potentials are measured between the 16 and 48inch potential electrodes and the infinite electrode on the surface.
The self-potential voltage in the borehole can be measured with the current generator "OFF".

PROBE SPECIFICATION	
Sensor Range	0 to 50,000 ohm-m
Sensitivity	1 ohm-m
Input Current	2,5,10,20 mA (selectable)
Options	Temperature Sensor 0 to 50C range 0.001C sensitivity
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	20mA current loop, 4800 baud
Supply Voltage	48 VDC @ 5W (at probe header)
Dimensions	40mm diameter x 2.0 meters long
Weight	3.6 kg