



## **BEP-02 COMBINATION BOREHOLE PROBE**

### **DESCRIPTION**

The BEP-02 is a combination probe designed to measure a wide range of physical rock properties in a borehole. The probe is equipped with the following sensors:

- ❖ Induction Conductivity sensor
- ❖ Natural gamma (Total count and KUT)
- ❖ Temperature sensor

The BEP-02 is controlled by an on-board microprocessor, which can sample up to 10 separate sensors at a rate of 2 Hz with up to 24 bits of resolution. The sensors are contained in a non-magnetic, non-conductive housing which is pressure rated to 2000 meters.

The BEP-02 is compatible with the BIN-04 digital data interface and IFG Corporation's standard 4 conductor logging cable.

The BEP-02 is a cost-effective way to obtain a number of geophysical logs in a single survey run. The probe provides the measurement of 4 channel radiometric, inductive conductivity and high sense temperature. The gamma sensor is a single crystal CsI(Na) detector with a dimension of 25mm X 75mm.

The radiometric channels are total count , K40, Bi214 and Tl208. The inductive conductivity sensor measures the conductivity of the rock. The high sense temperature logs can be applied for fracture mapping and water flow determination.

SENSOR	TYPE	RANGE	SENSITIVITY
Conductivity	Induction	1 to 10 <sup>6</sup> ppm	1 ppm
Gamma	Scintillometer	0 to 500,000 CPS	1 C/o.5sec
TC Channel	Scintillometer	100 – 3000 keV	1 CPS
K40 Channel	Scintillometer	1334 – 1604 keV	1 CPS
Bi214 Channel	Scintillometer	1631 – 2368keV	1 CPS
Tl208 Channel	Scintillometer	2440 – 2862keV	1 CPS
Temperature	Thermistor	0 to 50°C	0.0001°C



**BEP-01 COMBINATION BOREHOLE PROBE**

PROBE SPECIFICATIONS	
Electrodes	Naval brass
Housing	High strength filawounds tube
Maximum Depth	2000 meters
Connection	4 pin connector (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	24VDC @ 5W (at probe header)
Dimensions	40mm diameter x 1.5 meter long
Weight	3.0 kg