

2PGA-1000 (NATURAL GAMMA, SP, SINGLE POINT RESISTANCE)

DESCRIPTION

The 2PGA-1000 Poly-Gamma is a combination probe providing natural gamma, spontaneous potential (SP), and single point resistance (SPR), measurements. The operator must make these measurements in two separate runs. i.e. the gamma is made in one run and the SP, and SPR are made together on the second run. The Poly-Gamma probe is also the base foundation for the Poly series of probes. The Poly-Gamma when connected to a Poly-Resistivity probe is capable of making multiple resistivity measurements along with the, above-mentioned, Poly Gamma measurements, all in one run. The Poly-Gamma probe can be operated as a stand-alone probe or connected to the Poly-Resistivity section either with the MGX II or Matrix systems.

The SP and SPR measurements must be run in open (uncased), fluid filled, boreholes. The natural gamma may be run in any borehole conditions within specifications.

The 2PGA-1000 Gamma tool is also used in uranium exploration as a reconnaissance/evaluation tool, which reads elevated scintillometer counts within zones of radioactive mineralization (<2% equivalent U₃ O₈). When calibrated, the equivalent concentration of U₃ O₈ can be determined from the raw gamma counts.

SPECIFICATIONS

Length	79.5 cm (31.3")
Diameter	41 mm (1.63")
Weight	3.2 Kg (7 lbs)
Pressure Rating	13,790 kPa (2000 PSI)
Operating Temperature	-10 to + 70°C
Sensor (Detector)	Na(tl) scintillation 22.2 mm dia. x 76.2 mm long (0.875 x 3")
Measurement Range	0 - 100,000 CPS gamma ± 1,500 mV SP 1 - 500 Ohms SPR
Accuracy	± 1% of full scale
Resolution	0.02% of full scale