

## Natural Gamma Sonde

The Geovista digital Natural Gamma Ray Sonde can be used on its own or in combination with other Geovista sondes for correlation purposes. The spectral gamma version can operate in both spectral and in 5 window mode. The GM version uses a set of two Geiger-Muller detectors to cater for the high count rates in uranium ore. The shielded version allows the user to filter out low energy gamma rays in high grade uranium. This allows for a more linear operation in high gamma counts environments. The sonde also provides for automatic dead time measurement and correction

### Specifications:

|                 | Gross GR Sonde   | Spectral GR Sonde  | GM GR Sonde   | Filtered GR Sonde |
|-----------------|--|--|---|-------------------|
| Weight:         | 3.5 kg   | 6.30 kg  | 1.5 kg  | 4.5 kg.           |
| Length / Diam.  | 0.70m / 38 mm<br>(Also 28mm dia.)                              | 0.95m / 60 mm<br>(Also 73 mm dia.)                               | 0.93 m /28 mm<br>(Also 38 mm dia.)                  | 0.70m /42 mm      |
| Detector :      | 38mm sonde:<br>NaI - 25 x 50mm<br>28mm sonde:<br>NaI- 20x 75mm | 60mm sonde:<br>NaI- 38x 150 mm<br>73mm sonde:<br>NaI - 57x172 mm | Halogen-quenched<br>GMcounter tubes<br>8 mm / 15 mm | NaI - 20 x 50mm   |
| Max. Press.     | 20MPa  | 20 MPa   | 20 MPa  | 20MPa             |
| Max. Temp.      | 80°C   | 80°C   | 80°C  | 80°C              |
| No. of Channels |  | 256 / 512 / 1016   |   |                   |
| Energy Range    |  | 100 keV to 2.8 MeV   |   |                   |
| Resolution      |  | 10% @ 137Cs  |   |                   |



## Caliper Sonde

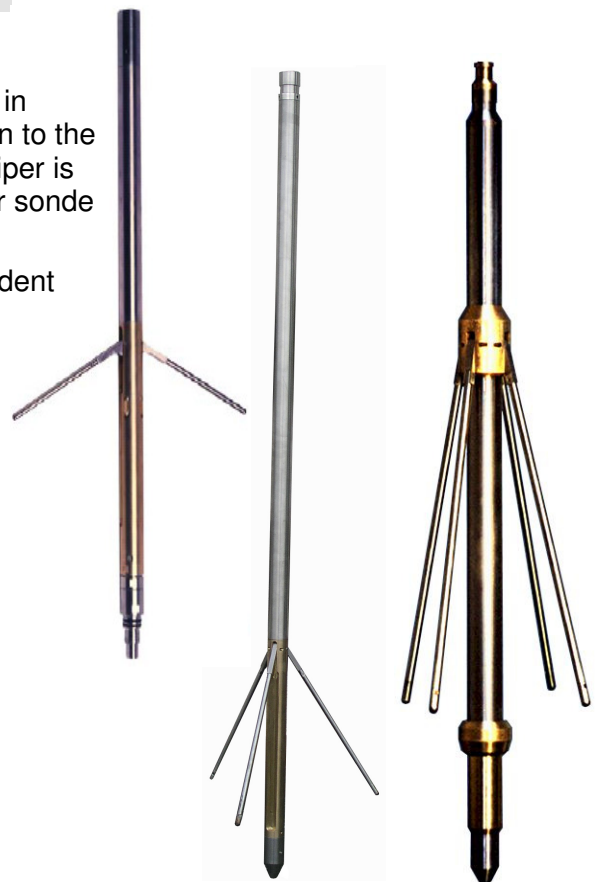
The GeoVista calipers can be used on their own, or in combination with other GeoVista sondes. In addition to the traditional 3-arms caliper, a lower cost two arms caliper is available. This can be coupled with a second caliper sonde to provide a low cost Four-Arm caliper.

Alternatively a single Four-Arm caliper with independent arms is available for larger boreholes.

The addition of a Geovista Verticality sonde would yield a Borehole Geometry Log.

### Specifications:

|               | 2-Arms      | 3-Arms | 4-Arms  |
|---------------|-------------|--------|---|
| Weight        | 5.5 kg      | 8.5 kg | 18.0kg  |
| Length        | 1.15        | 1.45   | 1.18m   |
| Diameter      | 38mm        | 38mm   | 80mm  |
| Accuracy      | ±3mm        | ±3mm   | ±3mm  |
| Max. Pressure | 20MPa       | 20MPa  | 20MPa   |
| Max. Temp.    | 80°C        | 80°C   | 80°C  |
| Range         | 45 – 600 mm |        | 85 to 1000mm<br>100 to 1500mm<br>Extended Range |



*Geovista reserve the right to change the products' list and specifications without prior notice*