**Probe Head** 

The Verticality probe provides accurate, continuous measurements of borehole inclination and direction.

These are output directly as log traces or may be processed further to produce tabular and graphical outputs of borehole position, borehole drift and true vertical depth.

#### **Principle of Measurement:**

The probe includes a triaxial magnetometer to determine the bearing of a reference in the probe relative to magnetic North and three accelerometers to measure inclination. The outputs from the transducers are processed by a downhole microprocessor to give final borehole inclination and azimuth data in real time.

# SPECIFICATION:

#### **Features**

Small diameter for slimhole operations

Continuous borehole orientation log

Suitable for all borehole inclinations and directions

### Measurements

Borehole inclination

Borehole direction

Borehole drift

True vertical depth

Natural Gamma

### **Applications**

### Minerals / Water / Engineering

Bed-thickness estimation

Surveying and deviation checks

1.66m (63.3")

## **Operating Conditions**

Borehole type:	open/plastic-cased, water/air-filled
Centralisation:	non-magnetic centralisers required
Recommended Logging Speed:	4m/min

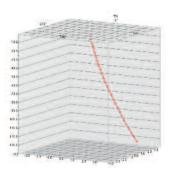
The operation of the probe is limited in steel casing or in the presence of magnetic minerals which affect the magnetometer. Under such conditions, only borehole inclination (without directional information) can be logged. The Gyro probe should be used in preference to the standard verticality probe in such cases.

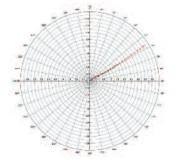
### **Specifications**

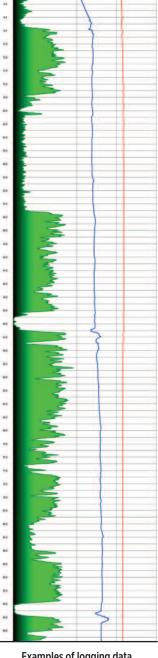
Diameter:	42mm
Length:	1.66m
Weight:	5.5kg
Temperature:	0-70°C (extended ranges available)
Max. pressure:	20MPa
Inclination range:	Horizontal +/- 90°
Azimuth range:	0 to 360°

### **Part Numbers**

Verticality probe with natural gamma







**Examples of logging data** 

Accelerometer & Magnetometer

Natural Gamma

**Verticality Probe**