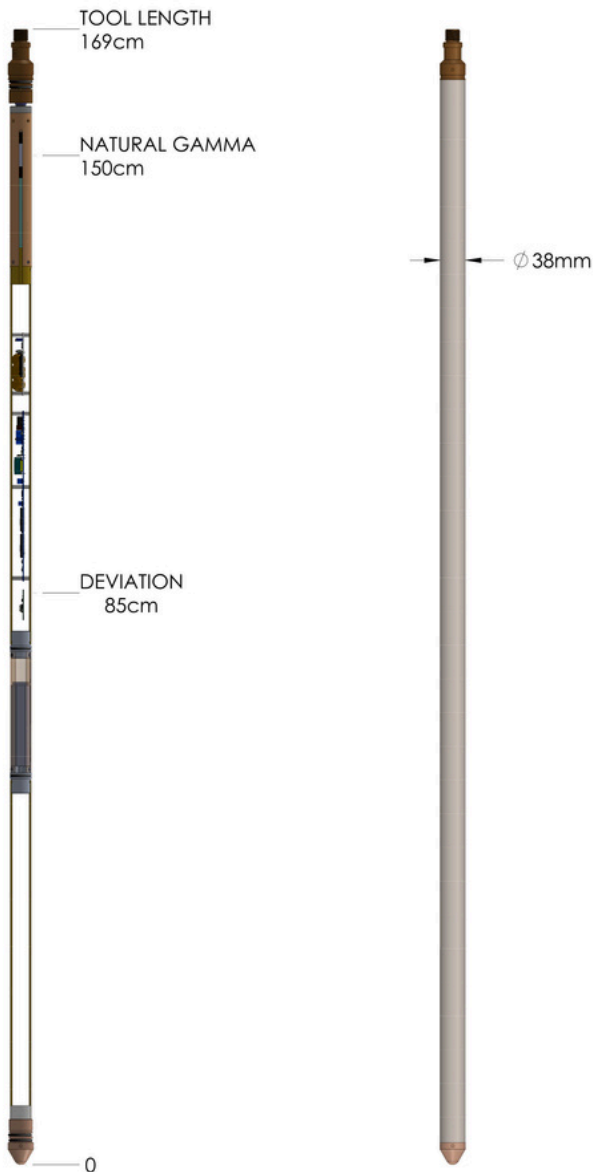


## Gyroscope Deviation Probe



The **GYR38** gyroscopic borehole deviation probe is based on a ruggedised Inertial Measurement Unit (IMU) designed from the ground up for **applications in drilling and mining**. This north-seeking device (for probe inclination values between  $3^\circ$  and  $177^\circ$  from the vertical) accurately provides continuous borehole trajectory data in non-vertical boreholes. A north-seeking time of only 2 minutes and 60 minute measurement time between fixes both contribute to maximise operational efficiency.

The **GYR38** probe operates in wireline mode via our proven **eMindLogger** acquisition unit. Borehole azimuth and inclination from the IMU are displayed **in real time** on the surface in our standard **6CH** logging software.

Furthermore, it is possible to add optional parameters such as natural gamma and/or a CCL detector to the basic probe.

### Specifications

- ✓ Diameter: 38 mm
- ✓ Length: 1690 mm
- ✓ Weight: 6 kg
- ✓ Max operating temp.:  $85^\circ\text{C}$
- ✓ Max operating pressure: 200 bar
- ✓ Housing materials: SS / bronze

### Data / sensor parameters

- ✓ Orientation sensor: Triple gyroscopes / accelerometers
- ✓ Measurement range:  $0 - 180^\circ$  inclination  
 $0 - 360^\circ$  azimuth
- ✓ Accuracy:  $\pm 0.15^\circ$  inclination  
 $\pm 2^\circ$  azimuth (when inclination  $> 3^\circ$ )

### Borehole conditions

- ✓ Dry or fluid-filled borehole
- ✓ Open hole, PVC or steel-cased hole

