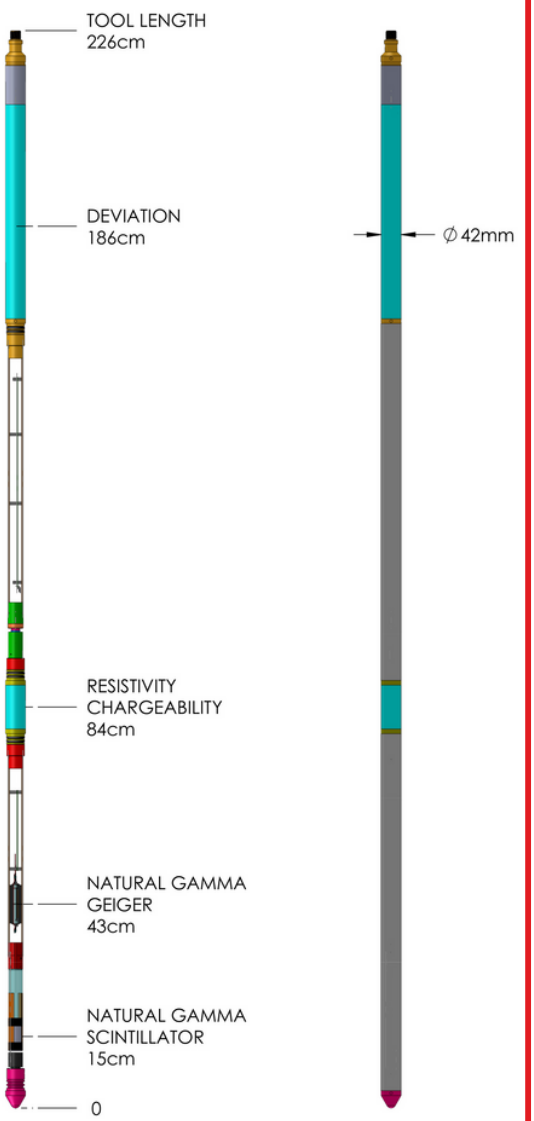
UEP42

Uranium exploration probe



The **UEP42** probe provides a set of data parameters responding perfectly to the needs of both uranium exploration and in-mine grade control. The probe is equipped with two complementary high and low sensitivity gamma radioactivity sensors to allow reliable results to be obtained over a wide range of uranium concentration values.

In addition, the probe provides borehole inclination and azimuth, as well as a focussed resistivity / chargeability measurement for the detection and evaluation of alteration zones.

The probe can be supplied having been calibrated using computational methods in order to provide a uranium concentration value in ppm.

Specifications

✓ Diameter:	42 mm
✓ Length:	2260 mm
✓ Weight:	11 kg
✓ Max. operating temperature :	70°C
✓ Max. operating pressure :	200 bar
✓ Power supply:	70 à 100 Vdc

Data / sensor parameters

✓ Gamma detector #1 :	ø25 x 50mm NaI(Tl) crystal
✓ Gamma detector #2 :	dual ZP1200 G-M tubes
✓ Inclination range/accuracy :	0 to 180° / ± 0.5°
✓ Azimut range/accuracy:	0 to 360° / ± 1°
✓ Resistivity injection signal:	200 Hz sine wave with ALC
✓ Resistivity measuring range:	0 to 25 kΩ·m (16-bit)

Accessories / options

✓ Pre-delivery calibration:	Uppm
✓ Resistivity calibration box	

Borehole conditions

✓ Dry or fluid-filled borehole:	Resistivity in fluid-filled b/h only
✓ Cased or open borehole	Open b/h required for resistivity