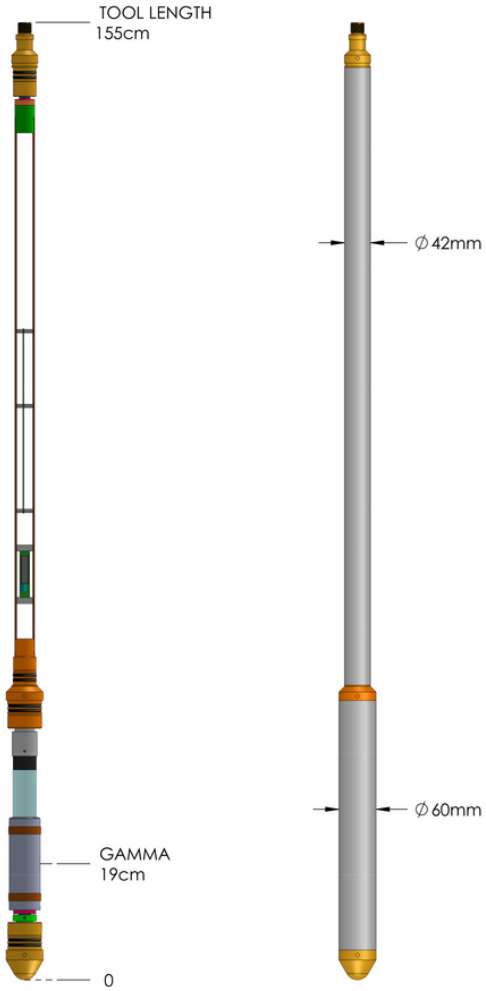
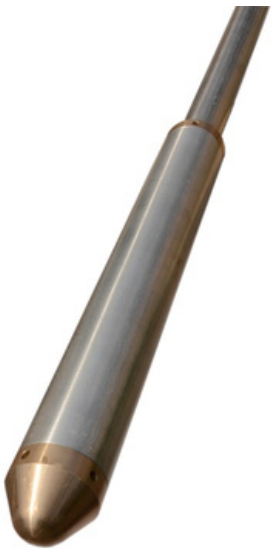
GRS42 & 60

Spectral Gamma probes





The detector assembly comprises of a 25 x 50 mm (**GRS42**) or 50 x 150 mm (**GRS60**) cylindrical NaI crystal coupled to a thermally stabilised photomultiplier tube.

According to type (see below) the probe is capable of resolving 250 or 500 discrete gamma ray energy levels over the range 60 to 3 060 keV; count rates from all of which are transmitted to the surface during logging.

Subsequently, discrete windows centred on the characteristic K, U and Th peak levels are used to derive the concentration of these radio-elements.

As an option, the probe can be calibrated before delivery using the full-spectrum method to provide K%, Uppm and Thppm.

Specifications

✓ Diameter:	42 mm (GRS42) 60 mm (GRS60)
✓ Length:	1220 mm
✓ Weight:	7 kg (GRS42) 12 kg (GRS60)
✓ Max. operating temperature:	70°C
✓ Max. operating pressure:	200 bar

Data / sensor parameters

✓ Detector GRS42:	ø25x50mm NaI(Tl) crystal
✓ Detector GRS60:	ø50x150mm NaI(Tl) crystal
✓ Spectral Energie range	60 to 3060 keV
✓ Spectral resolution:	250 ch * 12 keV (GRS42) 500 ch * 6 keV (GRS60)

Accessories / options

✓ Pre-delivery calibration:	Carried out according to international standards

Borehole conditions

✓ Dry or fluid filled borehole
✓ Cased or open borehole