Fluid and Gas Sampler probes are used to take a discrete sample of well fluid at a particular depth and to return it uncontaminated to the surface.

**Principle of Measurement:**

**Fluid Sampler:** The Fluid Sampler includes a chamber incorporating motor-actuated valves at the top and base. While the probe is being lowered into the borehole, the valves are held open, allowing well fluid to flow freely through the chamber. At the desired depth, the motor is activated under surface control, closing the valves to seal the chamber and contents ready for retrieval.

**Gas Sampler:** The Gas Sampler is designed to retrieve uncontaminated samples of well fluids comprising or containing gas whilst maintaining the original well pressure. The probes contain a sealed sample chamber with a moveable piston and motor-actuated valve. Prior to logging, the piston is withdrawn manually and locked into position, leaving a partial vacuum within the sample chamber. For sampling, the valve is opened under surface control, allowing the well fluid to enter the chamber. The valve is then closed, enclosing the sample under ambient pressure. At the surface, the fluid can be transferred while still under pressure to a suitable container for analysis.

**SPECIFICATION:**

**Features**
- Simple, motor-operated actuation
- Fluid sample chamber easily cleaned
- Fluid/gas sample retained at borehole pressure

**Applications**
- Fluid:
  - Sampling well fluid at depth for surface analysis
  - Groundwater and water well studies
- Gas:
  - Sampling well fluids containing gas

**Operating Conditions**
- Borehole type: open/cased, water-filled
- Recommended Logging Speed: Static sampling

**Specifications**

**Fluid Sampler**
- Volume: 0.25L  Diameter: 38mm  Length: 0.96m  Weight: 5kg
- Volume: 0.5L  Diameter: 38mm  Length: 1.27m  Weight: 5kg
- Volume: 1.0L  Diameter: 38mm  Length: 1.88m  Weight: 5kg
- Volume: 1.25L  Diameter: 38mm  Length: 2.19m  Weight: 5kg
- Temperature: 0-70°C (extended ranges available)
- Max. pressure: 20MPa

**Gas Sampler**
- Volume: 0.5L  Diameter: 51mm  Length: 1.18m  Weight: 10kg
- Volume: 1.0L  Diameter: 51mm  Length: 1.55m  Weight: 10kg
- Temperature: 0-70°C (extended ranges available)
- Max. pressure: 20MPa

**Part Numbers**
- I002198  Fluid Sampler probe Ili
- I002206  Gas Sampler probe Ili