

WATER/GAS SAMPLER PROBES

RG offers water and gas sampler probes in a range of popular sizes. The probes are designed to take discrete samples of well fluid at particular depths and to return them to the surface.

PRINCIPLE OF MEASUREMENT:

Water sampler: The water 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 for retrieval.

Gas sampler: RG gas samplers are designed to retrieve uncontaminated samples of well fluids comprising or containing gas, whilst maintaining the original well pressures. The probes are based on a sample chamber with a moveable piston and a motor-actuated valve.

Prior to logging, the piston is withdrawn manually and locked into position, leaving a partial vacuum within the sample chamber. When sampling, the valve is opened under surface control, allowing the well fluid to enter the chamber. The valve is then resealed, enclosing the sample under ambient pressure. At the surface, the fluid can be transferred while still under pressure to a suitable container for analysis.

FEATURES

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

APPLICATIONS

Water
Sampling well fluid at depth for surface analysis.
Groundwater and water well studies.

OPERATING CONDITIONS

Borehole type: Open/cased, water-filled

SPECIFICATIONS

Water sampler probe:

Diameter: 38mm or 51mm
Volume: 0.5li, 1li, 2li
Length: 0.96 to 1.97m
Max. temperature: 70°C
 (extended ranges available)
Max. pressure: 20MPa
 (extended ranges available)

Water/Gas sampler probe:

Diameter: 51mm
Volume: 1li
Length: 1.55m
Max. temperature: 70°C
 (extended ranges available)
Max. pressure: 20MPa
 (extended ranges available)

SALES INFORMATION

Probe:
 25 115 000 Water sampler 0.5li
 25 116 000 Water sampler 1li
 25 117 000 Water sampler 2li
 25 118 000 Water/Gas sampler 1li
 Samplers in other sizes are also available. Please call.

