



GEOPHYSICAL LOGGING PROBES

Fluid Sampler

ASMP

MEASUREMENT PRINCIPLE

The fluid sampler probe is addressable from commands from the surface such that it can be set at any depth in the borehole and a sample taken. The fluid sampler has a one litre capacity. Three filtered inlets are used to avoid debris in the sample.

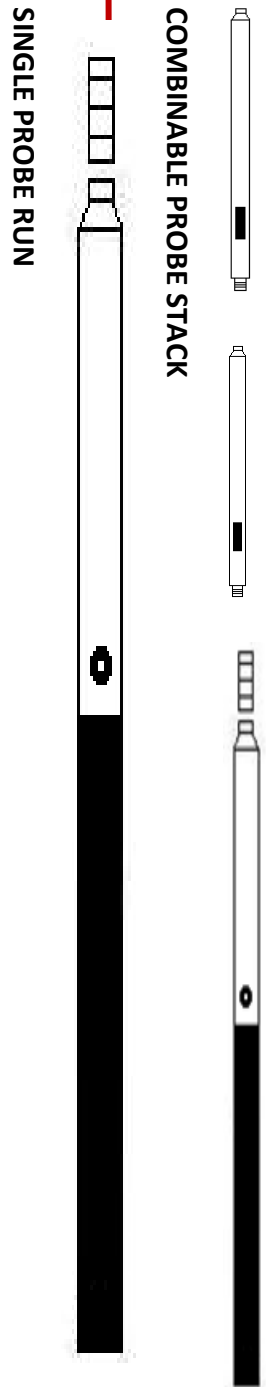
The sample retrieval at the surface is done under controlled risk assessed conditions to avoid loss of the sample and ensure a safe process. Probes can be “stacked” on top of the fluid sampler for multi parameter logging.

Ideally suited for:

- Groundwater sampling.
- Environmental contamination.
- Pollution studies.

Operations & Calibration:

- Minimum borehole diameter is 60mm.
- Requires fluid in the borehole.
- The sample can then be processed as per the clients requirements.
- Probes can be stacked to the top of the probe. Typical combinations are:
 - Gamma, gamma & magnetic deviation.



PHYSICAL SPECIFICATIONS

Weight	10.0kg
Length	1.8m
Diameter	42mm
Capacity	1 litre
Maximum Temperature	80°C
Maximum Pressure	20MPa



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SINGLE PROBE RUN

COMBINABLE PROBE STACK

Bacterial Analysis				
Analysis	Method	Unit	MDL	RL
E. Coli	Colitag	Present/Absent		
E. Coli	SM 9223B	MPN/100 ml	1.0	1.0
Fecal Coliforms	SM 9222D	CFU/100 ml	1.0	1.0
Fecal Coliforms	SM 9222D	CFU/ml	1.0	1.0
Total Coliforms	Colitag	Present/Absent		
Total Coliforms	SM 9223B	Present/Absent		
Total Coliforms	SM 9223B	MPN/100 ml	1.0	1.0

Drinking Water				
Analysis	Method	Unit	MDL	RL
Alkalinity as CaCO3	SM 2320B	mg/l	1.0	5.0
Bicarbonate	SM 2320B	mg/l	1.0	5.0
Carbonate	SM 2320B	mg/l	1.0	5.0
Chloride	EPA 300.0	mg/l	0.04	0.2
Color	SM 2120B	Color Units	5.0	5.0
Fluoride	EPA 300.0	mg/l	0.02	0.2
Hardness	SM 2340C	mg/l	3.0	5.0
Hydroxide	SM 2320B	mg/l	1.0	5.0
Nitrate as N	EPA 353.2	mg/l	0.01	0.05
Nitrite as N	EPA 353.2	mg/l	0.01	0.03
Perchlorate	EPA 331.0	ug/l	0.15	0.5
pH	SM 4500H+B	pH Units	0.01	0.01
Specific Conductance	SM 2510B	umhos/cm	2.0	10.0
Sulfate as SO4	EPA 300.0	mg/l	0.05	0.4
Total Dissolved Solids	SM 2540C	mg/l	3.0	6.0
Turbidity	SM 2130B	NTU	0.1	0.5
Hardness	SM 2340C	mg/l	3.0	5.0

Waste Water				
BOD - 5 Day	SM 5210	mg/l	3.0	3.0
Oil & Grease	EPA 1664A	mg/l	1.4	5.0
Total Kjeldahl Nitrogen (TKN)	EPA 351.2	mg/l	0.1	0.2
Total Suspended Solids	SM 2540D	mg/l	2.0	6.0
BOD - 5 Day	SM 5210	mg/l	3.0	3.0
Total Suspended Solids	SM 2540D	mg/l	2.0	6.0

Stormwater (NPDES/AZPEDES)				
Alkalinity as CaCO3	SM 2320B	mg/l	1.0	5.0
Chloride	EPA 300.0	mg/l	0.04	0.2
pH	SM 4500H+B	pH Units	0.01	0.01
Settleable Solids	SM 2540F	ml/l/hr	0.1	0.1
Total Suspended Solids	SM 2540D	mg/l	2.0	6.0
Total Suspended Solids	SM 2540D	mg/l	2.0	6.0
Turbidity	SM 2130B	NTU	0.1	0.5

