

SINGLE PROBE

GEOPHYSICAL LOGGING PROBES

Fluid Temperature Fluid Conductivity

MEASUREMENT PRINCIPLE

The probe measures the temperature and conductivity of the fluid in the borehole. The fluid temperature and conductivity detectors are mounted in an open chamber at the base of the probe, thus allowing free fluid flow through the detectors during downhole logging.

Fluid conductivity is measured by a multi-electrode array which compensates for changes in electrode contact resistivity.

Fluid temperature is measured using a high precision platinum resistance thermistor. The thermistor has a rapid response time to minimise the effects of logging speed.

Ideally suited for:

Groundwater investigations.

Operations & Calibration:

Minimum borehole diameter of 50mm. Fluid filled open borehole conditions.

Typically recorded in a downhole logging direction at logging speeds of 5 - 7 m/min. Downhole logging is preferred to obtain as fresh a sample as possible.

Final curve units can be degrees Celsius and micro-siemens per centimetre

Calibration from manufacturer or a series of laboratory solutions.

Probes can be stacked to the top of the probe. Typical combinations are: Gamma, gamma and caliper, magnetic deviation.



PHYSICAL SPECIFICATIONS		
	TEMP	COND
Weight	2.6kg	
Length	0.70m	
Diameter	38mm	
Detector	PT100 (platinum thermi	stor) Multiple electrodes
Range	0—80°C	0—50000 μS/cm
Accuracy & Resolution	+/-0.3°C & 0.01°C	1% at 1000 µS/cm
Maximum Pressure	20 MPa	
Maximum Temperature	80°C	

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TCME

COMBINABLE PROBE STACK



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