

○ Temperature/Conductivity Probe

This probe combination provides a continuous, depth-based measurement of fluid temperature and conductivity. Both parameters can be output in absolute and in differential forms. A natural-gamma detector is included for correlation purposes.

Principle of Measurement:

The temperature and conductivity sensors are located in an insulated housing at the base of the probe. During logging, borehole fluid flows freely through ports on the side and base of this housing and over the sensors. The log is recorded downwards while running into the hole to minimise fluid disturbance.

○ probe specification

> Features

Stable, high-quality, semiconductor temperature sensor
Graphite conductivity electrodes resist corrosion and are easily cleaned

> Measurements

Fluid Temperature/differential temperature
Fluid conductivity/differential conductivity
Natural gamma

> Applications

Water

Fluid salinity
Location of zones of different water quality
Water-well monitoring
Identification of zones of in-flow/out-flow
Temperature gradient
Water-level determination
Location of grout behind casing
Temperature compensation of other logs

> Operating Conditions

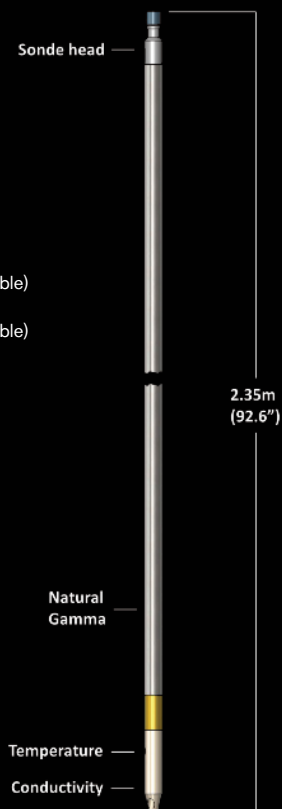
Borehole type: open/cased holes, water-filled

> Specifications

Diameter: 38mm
Weight: 7.7kg
Temperature: 0-70°C (extended ranges available)
Max. pressure: 20MPa
Temp. range: 0-70°C (extended ranges available)
Conductivity range: 50 to 50,000 $\mu\text{S} / \text{cm}$

> Sales Information

Probes:
1002055 Temperature/Conductivity probe with gamma



Temperature / Conductivity Sonde