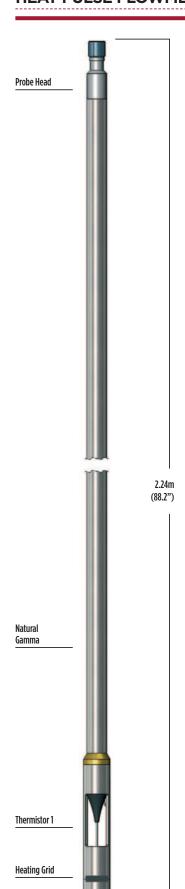
PROBES

HEAT-PULSE FLOWMETER





The Heat-Pulse Flowmeter probe is used to detect low vertical flows within a borehole below the threshold limits of conventional impeller tools.

The probe is designed for stationary measurements only. Normal logging practice involves measurements at a series of depths across the zone of interest.

Principle of Measurement:

The probe contains a horizontal wire-grid heating element and thermistors located above and below it. Apertures in the tool permit the free flow of well fluid through the assembly. Pulses of electric current are applied to the heating grid under surface command, warming fluid in the vicinity of the grid. The warm fluid front migrates towards the thermistors where it is detected. Depending on the direction of flow, either upper or lower thermistor detects the warm fluid front first. The time taken to reach the detector gives an indication of flow rate.

SPECIFICATION:

Features

Detection of very low vertical flow rates

Auto-null command cancels tool offsets prior to each measurement

Measurements

Up/down flow

Applications

Water

Location of permeable zones in water wells

Casing leak detection

Operating Conditions

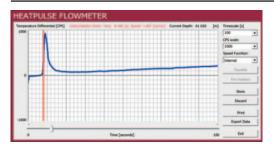
Borehole type:	open/cased hole, water-filled
Centralisation:	required
Recommended Logging Speed:	static measurements

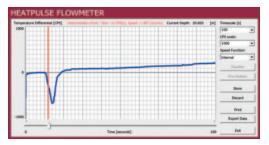
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Diameter:	51mm
Length:	2.24m
Weight:	8.0kg
Temperature:	0-50°C
Max. pressure:	20MPa
Measurement range:	0.1 to 3m/min

Part Numbers

1002119 Heat-Pulse Flowmeter probe





Examples of logging data

CLICK HERE FOR ENQUIRY FORM

Thermistor 2