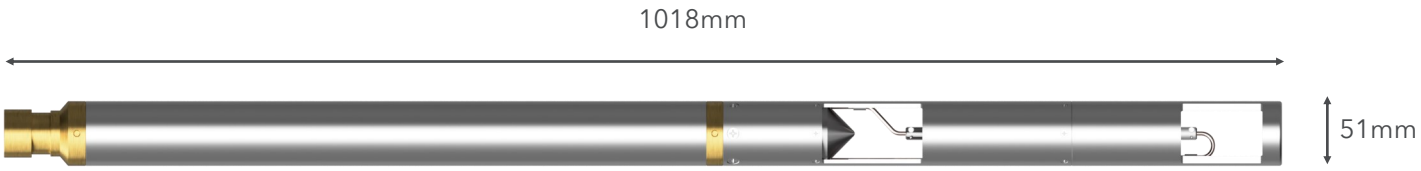
EUROPEAN GEOPHYSICAL SERVICES

HEAT PULSE FLOWMETER

Tool overview

The heat pulse flowmeter consists of two very sensitive temperature sensors, one 5cm above and one 5cm below, a small heating element. The tool is positioned at a particular depth and left for a few minutes for the temperature sensors to stabilise. A heat pulse is then generated and the temperature sensors monitored for a response. The time taken for the heat pulse to reach a given sensor is a function of the fluid velocity.

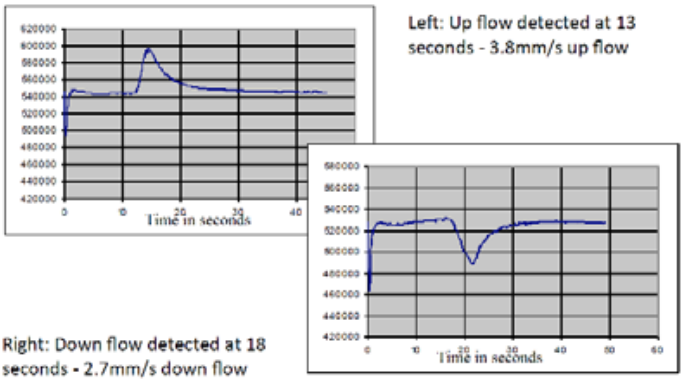
This tool is used in situations of very low fluid velocities where an impellor flow-meter would not be able detect any flow.



Features and benefits

- Good results in right conditions
- Identifies any flow in boreholes

Logging conditions	Borehole Conditions
Readings taken when tool held stationary	Minimum diameter 60mm water filled Unlined, screened or cased (detection or casing leaks)



Fluid velocity measurements using a heat pulse flowmeter

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Specifications	
Size	1018 x 51mm
Weight	6.2kg
Measurement range	1–50mm/s
Max. Temperature	80°C
Max.pressure	20MPa

Why European Geophysical Services?

European Geophysical Services offers excellent and reliable field service coupled with many years of geophysical interpretation experience, efficient data processing and high-quality reporting. All our field operators are graduate geologists or geophysicists with data acquisition and interpretational experience able to give on site analysis and interpretations. For more information, please call 01939 210710 or email office@europeangeophysical.com.