

Flowmeter Probe

Geovista Impeller Flowmeter Probe

APPLICATIONS

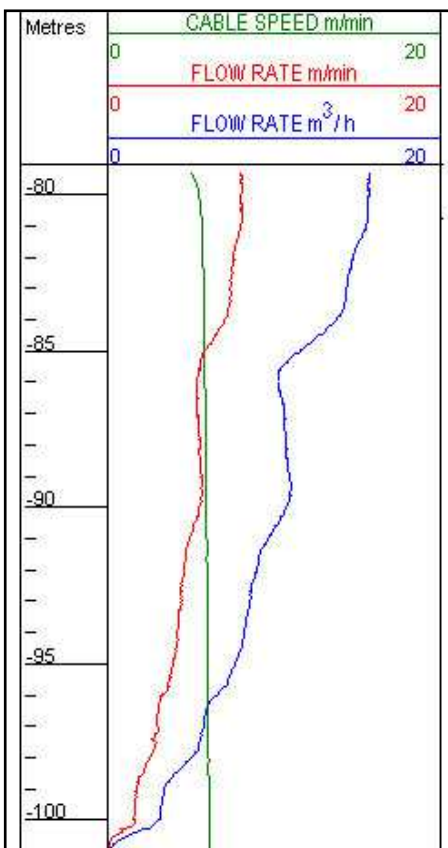
- Flow measurement profile
- Zonal identification and casing leak determination
- Location of flowing and permeable zones
- Identifying hydraulic gradients
- Identifying transient fractures open to the borehole (sources, cross-flow)
- Qualitative & Quantitative aquifer characteristics
- Cross hole flowmeter profiling

The Geovista Impeller flowmeter probe detects differential flow rates and direction in boreholes. Primarily used in groundwater applications, the data is real time and the probe is combinable with other probes.

OVERVIEW

The GeoVista Impeller Flowmeter sonde is comprised of an impeller mounted on jewel bearings, one bearing at each end of the impeller shaft. This is coupled with a high resolution rotation detector which identifies the direction and the rotation per second of the impeller. The Impeller comes with three different interchangeable cage size options (50, 75 and 100mm) for different borehole diameters.

The probe is logged commonly at different speeds to detect a large range of flow rates. Often coupled with pumping tests and a temperature-conductivity probe to determine the full borehole flow profile.



SPECIFICATION

FLOW Sonde	
Weight	3.5 kg
Length	0.48 m
Cage Diameter	50, 75 or 100 mm <i>(interchangeable)</i>
Threshold Velocity	Typically 1m/min <i>(varies with cage size)</i>
Resolution	1/40th turn
Data Output	Flow, direction
Max. Pressure	20 MPa
HP version	35 MPa
Max. Temperature	80°C
HT version	HT 125°C
Combinability	Modular
Borehole	Connect probes above Water
Centralisation	Open hole, Any casing Not Required