



GEOPHYSICAL LOGGING PROBES

Impeller Flowmeter

IFLW

MEASUREMENT PRINCIPLE

Impeller flowmeter probes are employed to measure inter borehole flows and/or inflows/outflows of groundwater within the borehole. The impeller flowmeter measures a higher rate of groundwater flow in the borehole with different cage sizes available for various borehole diameters.

As well as rotational speed of the impeller being measured, the direction of impeller rotation is also measured which aids the interpretation of uphole or downhole flow in the borehole.

Impeller flowmeters can be combined with fluid temperature and conductivity probes to provide a powerful analytical tool during pumping tests.

Ideally suited for:

Groundwater monitoring and characterisation.

Operations & Calibration:

- Minimum borehole diameter of 60mm.
- Requires fluid in the borehole.
- Can be run in open borehole or cased borehole conditions.

Typically run in both uphole and downhole logging directions at speeds between 10 and 15 m/min.

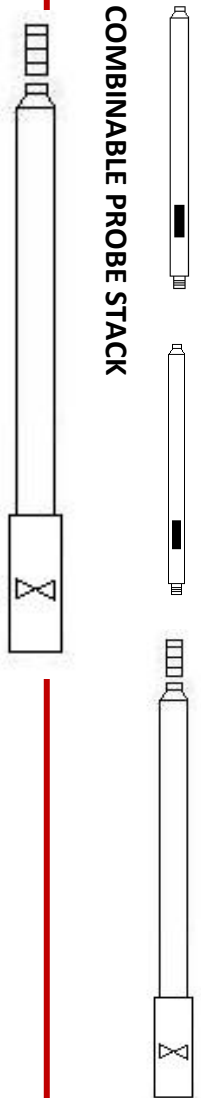
Final curve units can be counts per second, metres per minute or litres per second.

Calibration via uphole/downhole runs over a zone of known constant borehole diameter.

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

SINGLE PROBE RUN

COMBINABLE PROBE STACK



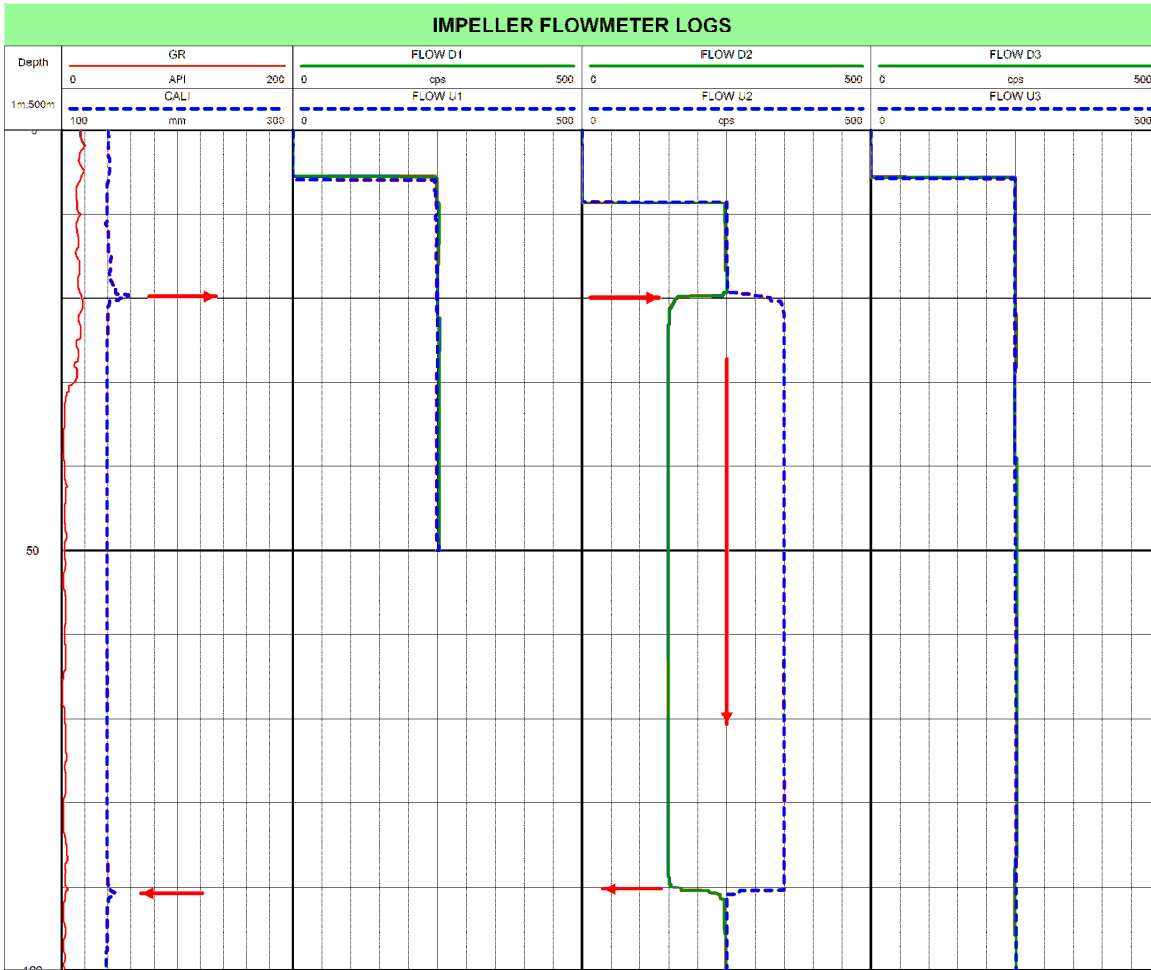
PHYSICAL SPECIFICATIONS	
Weight	3.5kg
Length	0.48m
Diameter	50mm, 75mm, 100mm
Impeller Cage Sizes	50mm, 75mm, 100mm
Maximum Pressure	20 MPa
Maximum Temperature	80°C



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