

TECHNICAL SHEET

FLUID	FLOWMETER TEMPERATURE CONDUCTIVITY	GFTC
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Generalities

Principle

The probe is equipped with lightweight helical impeller mounted on double sapphire bearings. The impeller contains magnets which actuate hall-effect switches within the probe to detect impeller rotation. Separate log channels record the time of rotation according to fast and slow timebases for improved resolution at high and low flow rates.

Result

Temperature and conductivity variation. Flow vertical profile according to the production flow.

Interest

Flow measurement within a water well, location of permeable zones, location of zones of different water quality, identification of zones of in-flow/out-flow, fluid salinity, temperature gradient, casing leak detection.

Option

Natural gamma sensor.

Constraints / borehole

filling up	: <input checked="" type="checkbox"/> water	<input checked="" type="checkbox"/> mud	<input type="checkbox"/> dry
casing	: <input checked="" type="checkbox"/> PVC screen	<input checked="" type="checkbox"/> steel screen	<input checked="" type="checkbox"/> open
borehole	: <input checked="" type="checkbox"/> cored	<input checked="" type="checkbox"/> destructive	
max. depth	: 2000 m		
effective diam.	: 70 mm - 1000 mm		
temperature	: 0 - 70 °C		
max. pressure	: 200 bars		

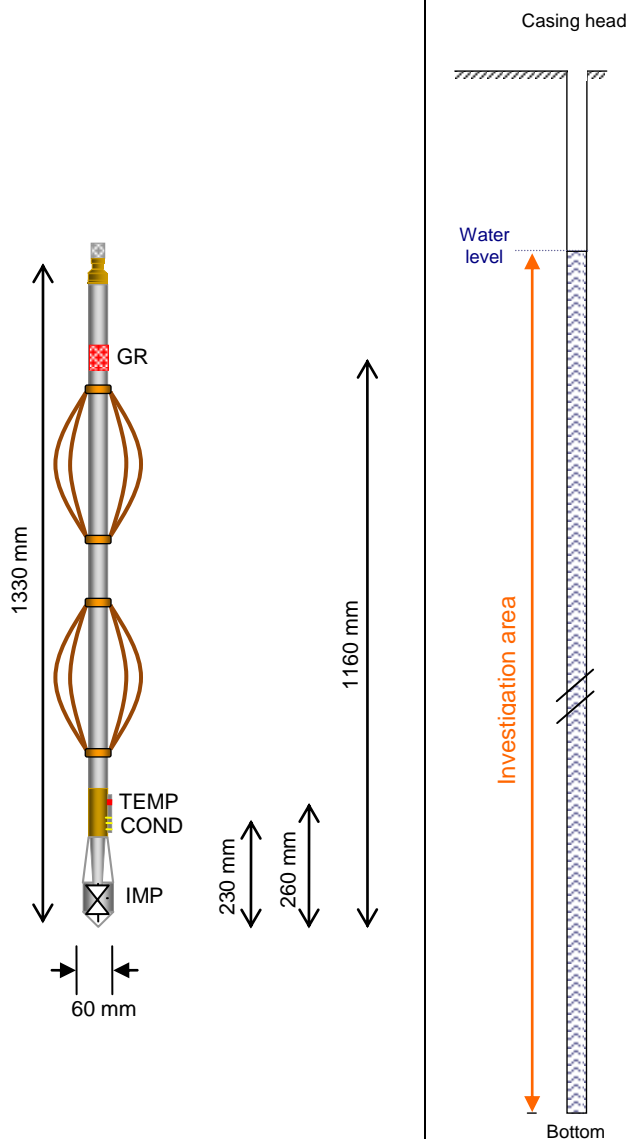
Technical specifications

Dimensions

- length : 1330 mm
- diameter : 60 mm
- weight : 8 kg

Elements

- 1 impeller : IMP
- 1 temperature sensor : TEMP
- 1 conductivity sensor : COND
- 1 natural gamma sensor : GR



Records / Measures

Records

- Tool : centered off-centered
- Measure : down up static
- Rec. speed : 5 - 15 m/min

Measures

- Range : HEL : 5 - 65 m/min ; TEMP : 0 – 65°C ; COND : 1 – 3000 µS/cm
- Resolution : HEL : 1 mm/min ; TEMP : 10⁻³ °C ; COND : 1 µS/cm
- Vert. resolution : 5 cm

Example

