

## Flowmeter Sondes

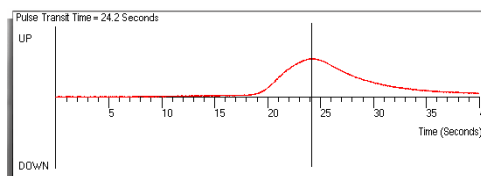
The Geovista flowmeter probes can be used on their own, in combination with other Geovista sondes.

**\* Impeller Flowmeter.** Different size impeller cages can be interchanged to suit different pipe or borehole diameters. An adapter is available to run this sonde in series with a Temperature & Conductivity sonde. The combinability with a

Temperature & Conductivity sonde is particularly useful during pumping tests.

### **\* Heat-Pulse Flowmeter.**

This sonde is used to measure flow rates that are below the threshold of the impeller flowmeter.



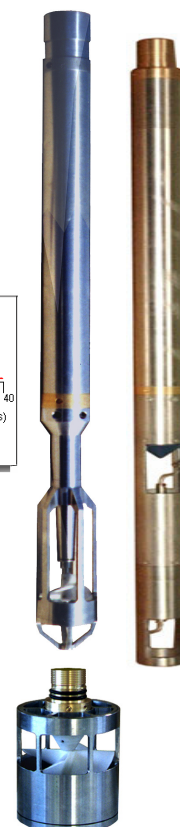
### Specifications:

#### Impeller Flowmeter

Weight / length:	3.5 kg / 0.48 m
Cage Diameter :	Optional interchangeable impeller cage sizes to order ( Ø 50, 75 and 100 mm)
Threshold Velocity:	Varies with cage size. (Typically 1 m/min )
Resolution:	1/40th turn
Data output:	Flow, direction
Max. Press./ Temp.:	20MPa / 80°C

#### Heat-Pulse Flowmeter

Weight / length:	6.2 kg / 0.9 m
Sonde Ø:	51 mm
Measure Range:	0.1 to 3 m/min
Resolution:	0.1 s
Data output:	Time, Direction
Max. Press./ Temp.:	20MPa / 80°C



## Addressable Fluid Sampler

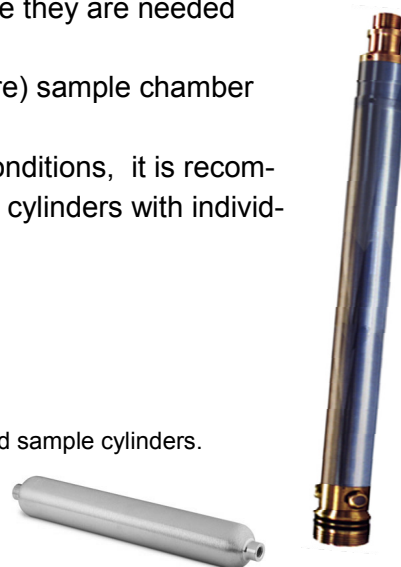
The Geovista Fluid Sampler sonde is capable of retrieving samples from boreholes, using a combination of motorised and manual valves. The sonde can be run alone or in combination with other Geovista sondes like for example a Gamma Ray, CCL and Temperature & Conductivity sondes so that samples are taken exactly where they are needed without additional logging runs.

The sonde is normally supplied with a 1 litre (or optionally 2 litre) sample chamber for

general sampling. For sample preservation under downhole conditions, it is recommended to use a system of removable smaller volume sample cylinders with individ-

### Specifications:

Weight :	3.0 kg	0.45 m
Length :	0.45 m (Without sample chamber)	
Diameter:	44 mm	
Sample Volume:	1 litre or 2 Litre (Main chamber), or as per selected sample cylinders.	
Max. Press. :	10MPa	Max. Temp. : 80°C



Geovista reserve the right to change the products' list and specifications without prior notice

## Temperature Sonde

The Geovista Temperature probe can be used on its own or in combination with other Geovista sondes, in any position, top, middle or bottom.

### Specifications:

**Weight:/ Length / Ø:**

2.6 kg / 0.53 m / 38 mm

**Temp. sensor:**

Type: PT100 - Range: 0 to 80°C / Accuracy: ±0.4°C to IEC 751:1983 Class A

**Max. Temp. / Press**

80°C / 20 MPa

## Water Level Indicator Sonde

The Geovista Water Level Indicator logging probe can be used on its own or in combination with other Geovista sondes, in any position, top, middle or bottom.

### Specifications:

**Weight:/ Length / Ø:**

2.2 kg / 0.35 m / 38 mm

**Max. Temp./ Press**

80°C / 20 Mpa

## Temperature - Conductivity Sonde (In-line)

The GeoVista Temperature & Conductivity probe can be used on its own or in combination with other GeoVista sondes . The combinability with a flowmeter is particularly useful during pumping tests. The conductivity sensor features a multi-electrode array that compensates for changes in electrode contact resistance due to fouling.

### Specifications:

**Weight:/ Length / Ø:**

4.3 kg / 0.76 m / 38 mm

**Temp. sensor:**

Type: PT100 - Range: 0 to 80°C / Accuracy: ±0.4°C to IEC 751:1983 Class A

**Cond. Sensor**

Range: 50 to 50,000 mS/cm  
Accuracy: ±1% @1 mS/cm

**Max. Temp. / Press.**

80°C / 20 Mpa

## pH Sonde

The Geovista pH logging probe can be used on its own or in combination with other Geovista sondes when placed at the bottom of the stack.

### Specifications:

**Weight:/ Length / Ø:**

1.8 kg / 0.54m / 38mm

**Max. Temperature:**

80°C

**Max. Pressure:**

10MPa

**pH Sensor**

Range: 1 to 14 pH

**Accuracy:**

up to ±0.05 pH

## Water Quality Sonde with Idronaut 303 sensors

This sonde can be equipped with a choice of up to 6 water quality sensors rated to 150 bar operation (optionally 200 bar).

### Specifications:

**Weight:/ Length / Ø:**

2 kg

0.6 m

43 mm

**Pressure**

Range: 0– 150bar

**Accuracy:** 0.05% FS

**Res.:** 0.0015 % F.S.

**Temperature**

Range: -1 to +50°C

**Accuracy:** 0.005°C

**Res.:** 0.001°C

**Conductivity**

Range: 0 to 64 mS/cm

**Accuracy:** 0.02mS/cm

**Res.:** 0.001 mS/cm

**D. Oxygen**

Range: 0 to 50ppm

**Accuracy:** 0.1ppm

**Res.:** 0.01 ppm

**pH**

Range: 0 to 14pH

**Accuracy:** 0.01 pH

**Res.:** 0.001 pH

**Redox**

Range: -1 to +1V

**Accuracy:** 1 mV

**Res.:** 0.1 mV

**Nitrate (\*)**

Range: -0 to 100 mg/l

**Accuracy:** ± 1 mg/l-N

**Resolution:** 0.01 mg/l

(\*) N.B. Output data in mV only. Requires calibration in mg/l.



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