



## COREHOLE DYNAMIC FLOWMETER™

The Corehole Dynamic Flowmeter™ (CDFM™) uses Faraday's Law of Induction to measure fluid flow rates, fluid conductivity and temperature in open boreholes or screened wells. The probe is easily deployed to depths of up to 6,000 feet (4,000 ft. max water pressure) and can rapidly test a 2,000-foot saturated section of borehole for fracture-specific flow rates under both ambient and stressed conditions, in less than 12 hours. The CDFM™ provides fracture-specific permeabilities and fracture-specific head (water-level), replacing the need for packer testing for hydrology data, at a fraction of the cost and time.

The CDFM™ uses an electromagnet and two electrodes positioned 90-degrees with respect to the magnetic field. The electrodes are situated 180-degrees from each other, surrounding a hollow 1-inch cylindrical flow chamber. There are no moving parts on the probe.

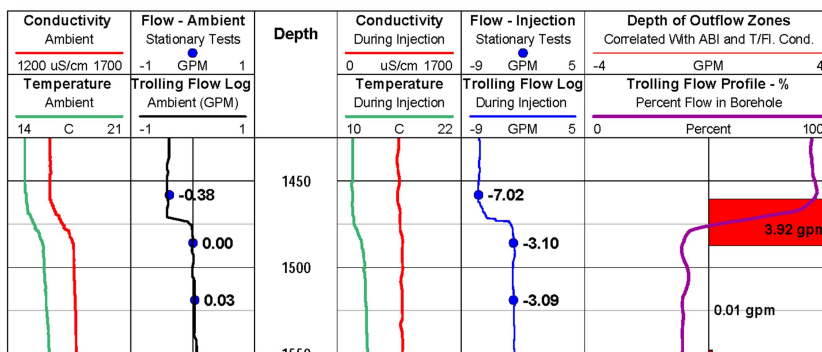
### APPLICATIONS:

- + Mining/Dewatering Studies
- + Fracture Flow and Permeability
- + Water Level in Fractures
- + Environmental Studies
- + Specific Flow from Aquifers for Water Wells

### PROBE SPECIFICATIONS:

|                          |                                                               |
|--------------------------|---------------------------------------------------------------|
| Diameter:                | 51 mm (2.0 in.) Sensor Housing<br>42 mm (1.63 in.) Probe Body |
| Length:                  | 1.42 m (4.67 ft.)                                             |
| Max Temperature Rating:  | 60°C (140°F)                                                  |
| Max Pressure Rating:     | 120 bar (1740 psi)                                            |
| Borehole Diameter Range: | 76 – 305 mm (3.0 – 12.0 in.)                                  |

| Sensor             | Range                                                     | Accuracy                               |
|--------------------|-----------------------------------------------------------|----------------------------------------|
| Flow               | w/ Diverter: 0.01 – 10 gpm<br>w/o Diverter: 0.2 – 250 fpm | ±0.004 gpm<br>±0.08 fpm (low end only) |
| Fluid Conductivity | 0.1 – 100 mS/cm                                           | ±5%                                    |
| Fluid Temperature  | 0 – 60 °C                                                 | ±5%                                    |



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