Dart™ enables efficient and high-resolution NMR logging in small-diameter borings either open or PVC-cased.

Dart Applications Include:
- Moisture Logging & Monitoring
- Vadose Zone Characterization
- Environmental Site Assessment
- Geotechnical Investigations
- Hydrocarbon Contamination
- Permafrost Studies
- Soil Compaction Analysis

Dart yields a high-resolution log of hydrogeologic properties, including porosity, clay-bound/capillary-bound/free water content, pore size distribution, and hydraulic conductivity. Above the water table, Dart provides direct measurement of moisture content.
Dart Hand-Portable NMR Logging System

With Dart™, NMR logging becomes a single-person operation and any small-diameter boring becomes an opportunity for a high-resolution hydrogeologic log.

Hand-Portable NMR
Dart is the world's first hand-portable NMR logging tool, enabling backpack deployment to remote or environmentally sensitive locations, and eliminating the need for a multi-person crew or vehicle.

High Detail Resolution
Dart has an even higher vertical resolution than the Javelin, making it ideal for fine bed characterization. Dart also has a very short echo spacing ideal for measuring moisture content in unsaturated systems.

Sensitivity without Disturbance
Drilling or extracting samples can alter their hydrogeologic properties. Dart measures beyond the drilled zone in a shell located more than two inches away from tool surface. For most direct-push, hand-augered or diamond-core holes, Dart data reflects the properties of the undisturbed formation.

SPECIFICATIONS

| NMR Frequency: 410 - 480 kHz | Probe Weight: 10lb (4.5kg) |
| Min. Echo Spacing: 400 μs | Probe Length: 52in (132cm) |
| Vertical Resolution: 9in (23cm) | Control Unit Weight: 17lb (7.7kg) |
| Sensitive Diameter: 5 - 6in (12 - 15cm) | Interface: PC USB |
| Probe Diameter: 1.75in (44mm) | Battery: 12-17V |

* Available with advanced diffusion measurement software for characterization of hydrocarbon contaminants


Dart is a trademark of Vista Clara.

CE Certified. FCC, CTick. CE Emissions Compliant.

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