

# Dart In-Situ Soil Moisture Probe for Discus

### Portable and Precise

Dart delivers powerful NMR soil moisture measurements with enhanced vertical resolution and precision. With a slim and portable design, Dart can be deployed in auger holes or other any other small-diameter borings.

### **Optimized Electronics**

Dart's unique design is ideal for sensitivity in soils and sediments. Low-field NMR minimizes artifacts from magnetic soils and an ultra-short tau enables accurate detection of water across the widest range of pore sizes.



# Total WC=50.9%, Mobile WC=19.8%, T<sub>2ML</sub>=20ms, Noise ~ 1.8% spin echo data multi-exponential fit plant NMR data indicates the total water content and distinguishes mobile water from water bound in silts and clays.



## Specifications

Frequency Range: 425-475 kHz

Minimum Tau: 350 μs

Probe Diameter: 1.75 inches

Probe Weight: < 10lbs.

NMR Sensitive Zone Diameter: 6 inches

Vertical Resolution: 9 inches

Compatible with Discus Control Unit

