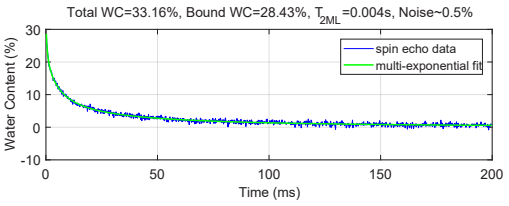
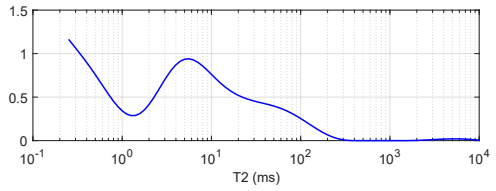
Helios NMR Rock and Soil Core Analyzer

Helios delivers accurate NMR measurements for rock and soil samples over a wide range of core size and lithology, along with flexibility for field or lab usage.

Helios Applications Include:

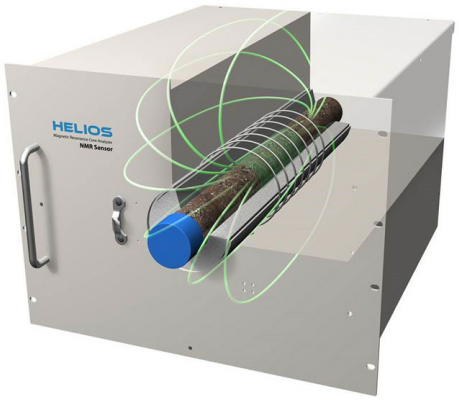
- Aquifer and Aquitard Characterization
- Moisture Analysis in Soil and Rock
- Bound/Mobile Cutoff Calibration
- Saturation and Drainage Dynamics
- Petrophysical Calibration
- Porous Media Dynamics

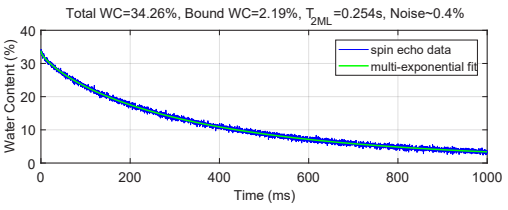


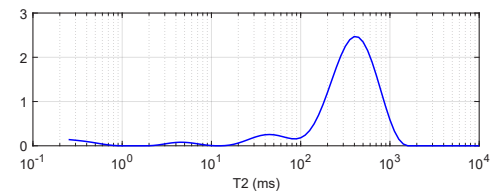


Low Permeability Clayey Silt

Helios NMR measurements enable rapid quantification of fluid content and hydrogeologic properties including the total porosity, bound or mobile fluid fractions, pore size distribution, and permeability.



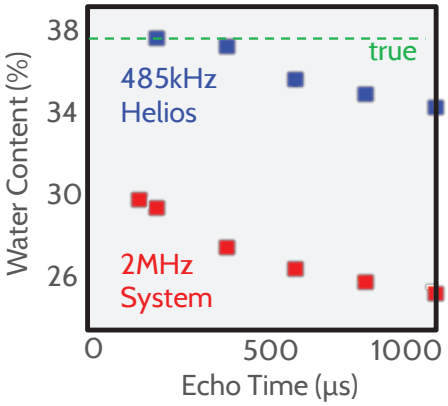




High Permeability Clean Sand

Helios NMR Rock and Soil Core Analyzer for Lab and Field

Helios' unique design features allow robust measurements of hydrologic properties over a wide range of sample lithology and core size.



Field Portability

Maintaining laboratory precision, Helios' lightweight and rugged design allows measurement in the field. With a mobile configuration, you can quantify water content and hydrological properties immediately after collecting samples.

Any Sample Size

Soil and rock cores come in a wide variety of shapes and sizes. Helios has interchangeable detection coils appropriate for different core diameters, and removable doors to enable continuous measurement of long undisturbed cores.

Low-Field for Magnetic Geology

Helios operates in a much lower field and with a higher relative bandwidth than other NMR analyzers, enabling more accurate measurement of water content in magnetically susceptible rocks and sediments.

SPECIFICATIONS

Frequency: 454 kHz
Echo Spacing: 200 µs
Max Core Diameter: 1.5 – 4in (38 - 102mm)
Coil Diameter: 1.5 – 4in (38 - 102mm)

NMR Sensor Weight: 50 lb (23kg)
Control Unit Weight: 20lb (9kg)
Power: 110V AC or 220V AC
Laptop Interface: USB/Windows

FCC & CE Emissions Compliant

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NMR Geophysics

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