

# Corona NMR Rock and Soil Core Analyzer

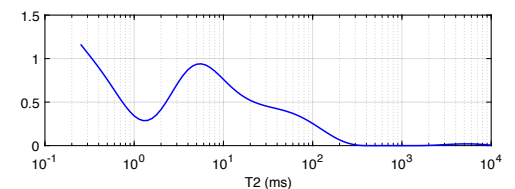
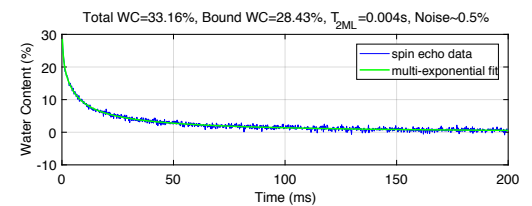
Corona delivers accurate NMR measurements with flexibility over a wide range of core size and lithology.



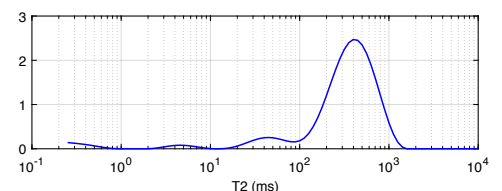
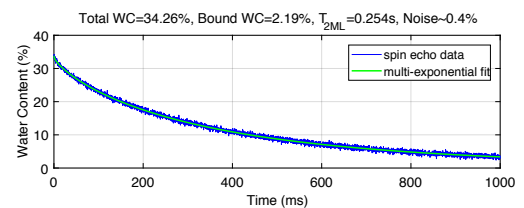
## Corona Applications Include:

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

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



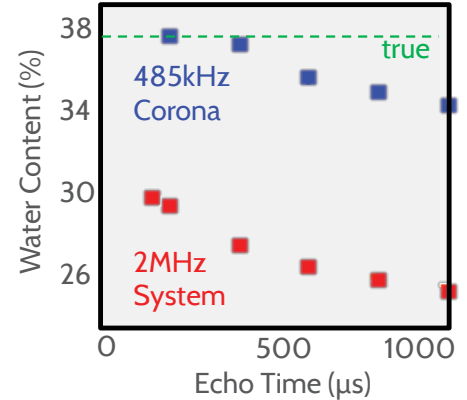
Low Permeability Clayey Silt



High Permeability Clean Sand

# Corona NMR Rock and Soil Core Analyzer for Lab and Field

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



## Field Portability

Maintaining laboratory precision, Corona's 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. Corona 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

Corona 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: 485 kHz  
Echo Spacing: 200  $\mu$ s  
Max Core Diameter: 1.5 - 4 inches  
Coil Diameter: 1.5 - 4 inches

NMR Sensor Weight: 50 lb  
Control Unit Weight: 20lb  
Power: 110V AC  
Laptop Interface: USB/Windows

Patents Pending