

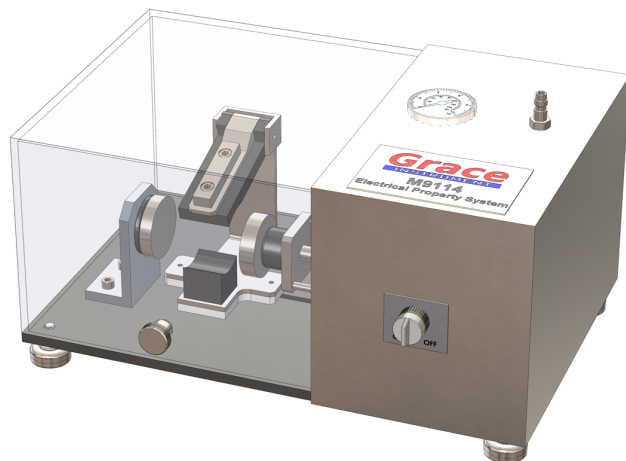
Grace Instrument's M9114 Electrical Properties System determines rock resistivity for fully and partially brine-saturated core samples at ambient conditions. The resistivity measurement is based on the 2 or 4 electrodes method. Two electrodes are able to clamp around the circumference of the rock sample. The data obtained from this device can be utilized to derive formation factor, cementation exponent "m", resistivity index, and Archie saturation exponent "n". (Saturation exponent calculation requires the known saturation condition (S_w) of the core sample, which cannot be measured by M9114.)

The platens of the system can press the core end faces with constant pressure.

The system is equipped with a transparent cover to isolate the rock sample from external environment.

The LCR meter can measure core resistance and brine resistance.

Its PC software displays and records resistivity measurements of core samples.



M9114 specifications

Core sample diameter: 1" and 1.5"
 Core sample length: Up to 4" with two electrodes clamped around the circumference of the core sample
 Maximum air pressure: 150 PSI
 Resistivity measurement: 2 or 4 electrodes method
 Power supply: 230 VAC, 50/60 Hz
 Wetted material: stainless steel, plastic
 Core/electrode contact: pneumatic pressure

LCR Meter specifications

Test frequency: 10 Hz to 100 kHz (4 digits resolution)
 Basic measurement accuracy: 0.05%
 Test modes: 16 combinations
 Test speed: FAST: 25ms / MED: 100ms / SLOW: 333ms
 Measurement modes: continuous or triggered measurements
 Display: 3.5" LCD

Items included

1 PC Core holder with core seat and electrode plates.
 Core OD: 1" and 1.5". Core Length: up to 4", with two electrodes clamped around the circumference of the core sample.
 1 PC Air cylinder, up to 150 PSI air pressure.
 1 PC Air regulator, 0-150 PSI.
 1 PC Analog pressure gauge.
 1 PC LCR meter monitors the core resistance, phase angle, and frequency.
 1 PC Brine conductivity probe for brine resistivity measurement.