

BenchLab 7400 Low Permeability

The BenchLab 7300 Complex Resistivity System available with temperature, liquid and gas pore pressure. Temperature systems are floor models designed to measure petrophysical rock properties at reservoir pressures in a compact modular setup. This is a perfect system for Universities due to the size and ease of use.

Low Permeability Module

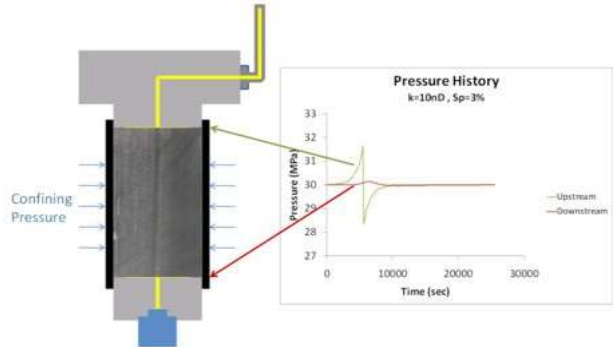
The Low Permeability Module is based on NER's proven transducer design for performing routine permeability measurements in the range 10 nD to 0.1 mD using NER's in-house complex transient technique at confining pressures up to 10,000 psi.

This option allows the use of customizable pressure transients as well as more traditional sinusoidal oscillation and pulse decay.



Data Integration

The BenchLab is an integrated rock properties test platform. By combining multiple property measurement modules with variable confining pressures.



Example core schematic and pressure history data recovered from Low

Core Holder and Pressurization System

A Hassler core holder configuration is used. Samples sizes up to 1.5 inches in diameter and 6 inches in length can be measured and taken to confining pressures up to 10,000 psi. Pressure control and data acquisition functions are all computer controlled for automated testing.

Data Acquisition and Processing

The BenchLab series uses NER's latest Autolab 6 software, which can operate in both Windows and Linux environments. NER's in-house workflows for data reduction and reporting—for example, for low permeability and ultrasonic velocities—are available by default. Autolab 6 also allows scripting for unsupervised testing sequences and the use of virtual channels for extended feedback capabilities.

Key Features

- Customizable pressure transients
- Complex transient technique
- Customizable pressure transients

