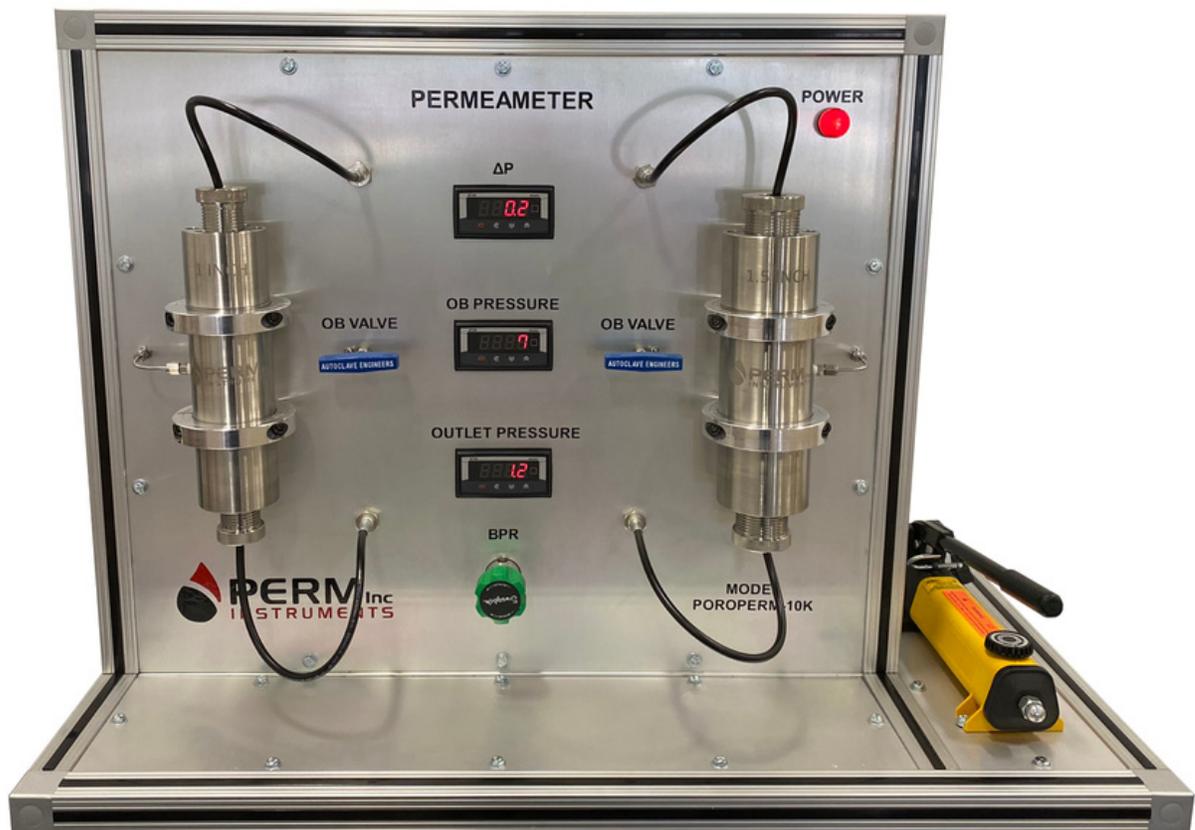


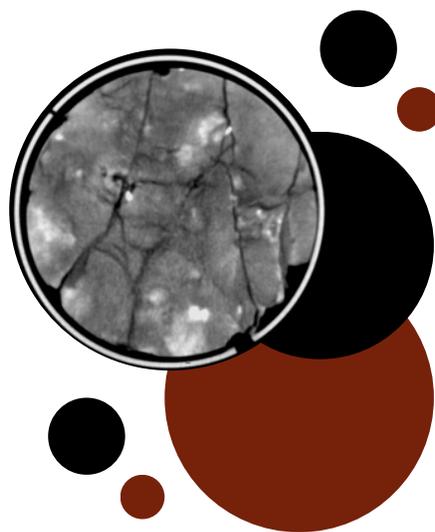
# Semi-Automated Steady-State Gas Permeameter



# SEMI-AUTO SS GAS PERMEAMETER

## Description:

The semi-automated steady-state permeameter can measure the permeability of a core plug with a low to high range of permeability. An electric gas regulator installed on this system lets the operator adjust the pressure drop through the developed software. Besides the gas regulator, the software can control all the valves and read the pressure drop, outlet pressure, confining pressure, and flow rate. A hand-operated hydraulic pump is used to apply the confining pressure on the core plug up to 10,000 psi. Two hassler core holders are involved for permeability measurements with two different sizes. The end user can adjust the injection pressure up to 500 psi using an accurate gas regulator and read the flow rate and pressure drop and injection pressure from the displays. In addition, the unit is equipped with a manual spring BPR to set the outlet pressure manually. Several flow meters were employed for more accurate flow measurements. There is a 14-bit data logger in the unit for reading and recording. The unit can measure the absolute permeability, air permeability, and slippage factor.



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## Specifications:

- ◆ Core holder diameter: 1.0 or 1.5 inches
- ◆ Core holder length: up to 4.0 inches
- ◆ Maximum pore pressure: up to 500 psi
- ◆ Confining pressure: up to 10,000 psi
- ◆ Gas type: Nitrogen
- ◆ Three digital pressure displays for DP, outlet pressure, and confining pressure
- ◆ Accurate pressure measurement with 0.1% FS
- ◆ Permeability range: 0.001 mD to 10,000 mD
- ◆ Maximum measurable flow rate: 10,000 SCCM
- ◆ Flow rate measurement accuracy: 1% FS
- ◆ Core holder material: stainless steel
- ◆ Power supply: 110-220 V/50-60 Hz, 300 W
- ◆ Two separate core holders
- ◆ Several flow meters

## Benefits:

- ◆ Automated systems with a developed software
- ◆ Higher injection pressure suitable for tight gas
- ◆ Higher confining pressure to simulate the reservoir pressure
- ◆ Fast and accurate permeability measurement

# CONTACT

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