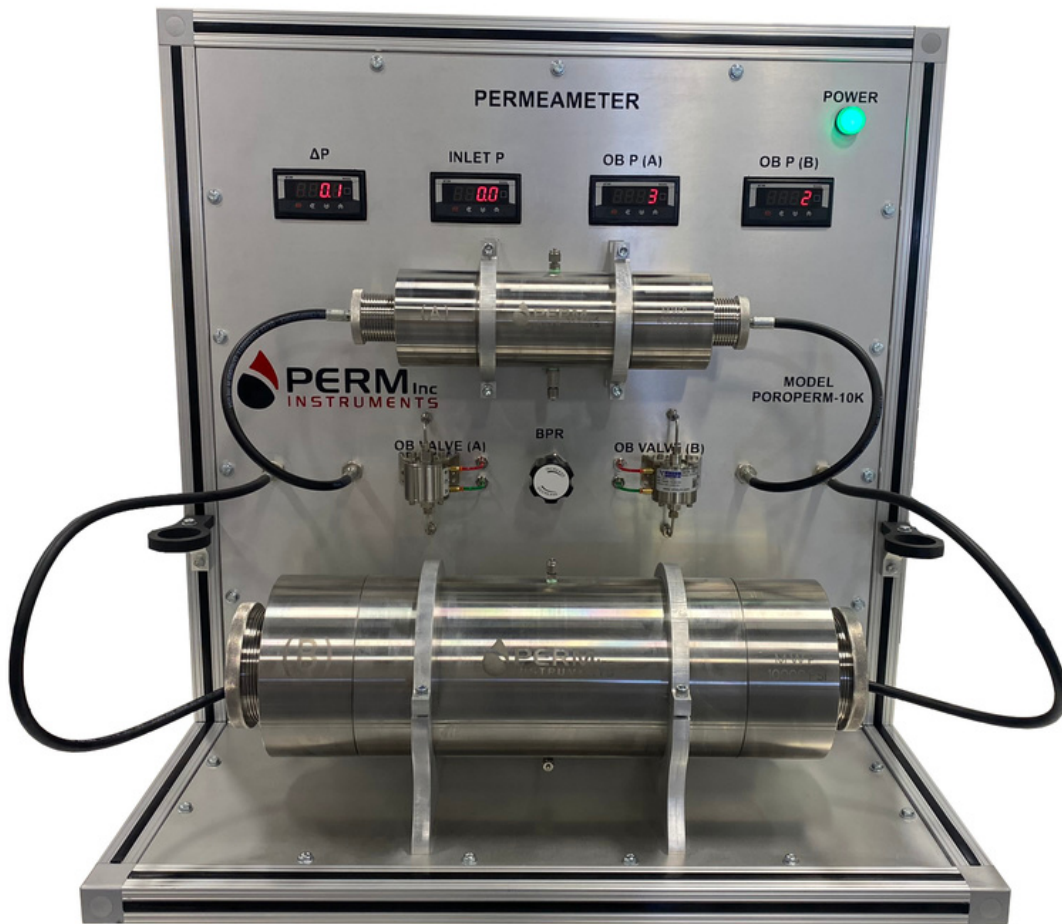


Fully Automated Steady-State Gas Permeameter



PERM Inc
INSTRUMENTS

FULLY AUTO SS GAS PERMEAMETER

Description:

The fully automated steady-state permeameter can measure the permeability of a core plug with a low to high range of permeability, in which the system can control the injection pressure, confining pressure, and outlet pressure (using a gas dome BPR). The operator can set all these pressures through the software in the range of 0-500 psi, 0-125 psi, and 0-10,000 psi. Two Hassler core holders are used for permeability measurements with two different sizes. Several flow meters were considered 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 through a series of permeability measurements.

Specifications:

- ◆ Core holder diameter: 1.0 or 1.5 inches
- ◆ Core holder length: up to 6.0 inches
- ◆ Maximum pore pressure: up to 500 psi
- ◆ Confining pressure: up to 10,000 psi
- ◆ Gas type: Nitrogen
- ◆ Permeability range: 0.001 mD to 10,000 mD
- ◆ Maximum measurable flow rate: 10,000 SCCM
- ◆ Accurate pressure measurement with 0.1% FS
- ◆ Power supply: 110-220 V/50-60 Hz, 300 W
- ◆ Core holder material: stainless steel
- ◆ Full control of BPR, confining pressure and pressure drop
- ◆ Three digital pressure displays for DP, outlet pressure, and confining pressure
- ◆ Flow rate measurement accuracy: 1% FS
- ◆ Several flow meters
- ◆ Two separate core holders
- ◆ Water as confining pressure fluid having minimum damage in case of sleeve failure

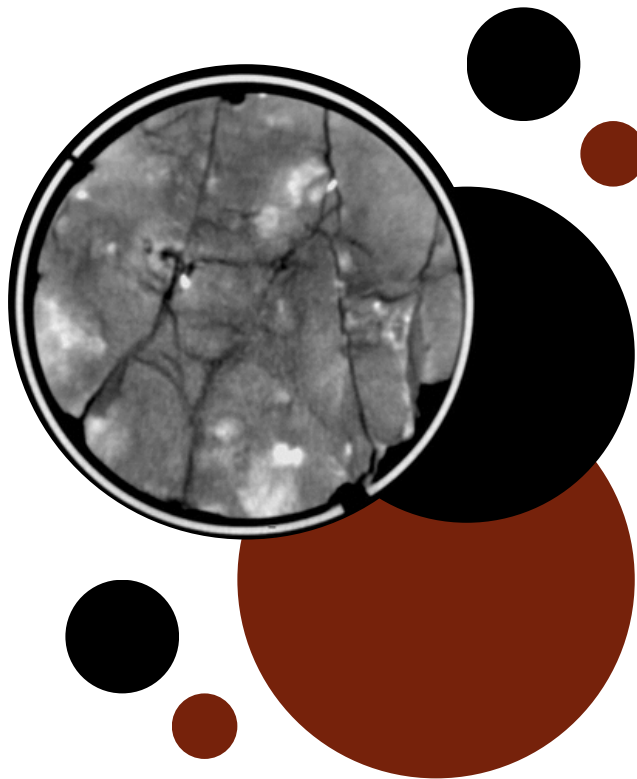
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Benefits:

- ◆ Fully automated system
- ◆ Sophisticated system that can run several measurements under different confining pressures in one run

Possible Upgrades:

- ◆ Core holder length and diameter can be increased to 12 inches and 4 inches, respectively
- ◆ Another gas entry can be added to the system for helium or other types of gas



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