

# Gas Permeameter

## GP-R20



### Description:

The gas permeability measurement apparatus is designed to measure the permeability to gas (such as air, nitrogen, etc.) of plug-sized core samples at room conditions and reservoir overburden pressures up to 20 bar using the steady-state method. The instrument is configured to investigate the slip factor and Klippenberg permeability versus reciprocal mean pressure relationship at different flow rates, back pressures, and injection pressures by injecting gas through the test sample. The differential pressure on both sides of the core is measured using a single differential pressure transmitter, and a precise gas mass flow meter is employed to measure the past gas flow rate through the sample.

### Technical Specification:

- Core Holder (easy load)
- Core diameter: 1.5"
- Maximum core length: 3.5"
- Maximum injection pressure: 6 bar
- Maximum confining pressure: 20 bar
- Differential pressure transmitter  $\times 1$
- Mass flow meter
- Permeability range: 0.01 - 200 mD
- Pressure gauges  $\times 2$
- Dead billet for confining examination
- Touch panel: Equipped with special software for considering slip factor and Klinkenberg effect



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