

اندازه‌گیری تراوایی نمونه با استفاده از گاز
Gas Permeameter (MP-05)



Apex technologies co., provides a modern instruction focused measuring instrument that allows the operator to go through the experimental process in structured transparent or dark steps respect to the permeability measurement equipment models selected. Samples are hand loaded and experimental operating conditions are established manually, thus re-enforcing the previously learned theory. The instrument is based on Darcy's law allowing the operator to make permeability measurements due to gas and even due to liquid for some models on cylindrical or disk shape samples. Using any type of this equipment construct by Apex technologies co., make it possible to measure the permeability of sample in wide range of 0.01 to 5000 mD based on the high accurate instruments and operating procedure including several essential steps. Besides, there is model including metering valves enabling the operator to investigate the Klingenberg effect and measuring the permeability of sample due to liquid without injection of any liquid. The instrument is forgiving in its operation and requires neither



mercury nor significantly elevated confining pressures to operate, enhancing user safety. The dual injection system allows for the unsteady state displacement of one fluid with another at pressures up to 1500 psi.

Technical Specifications:

- ✓ Online software for data acquisition, data logging, controlling automatic valves and measuring the permeability both due to gas and due to liquid using Klengenberg effect
- ✓ Using high accuracy Keller pressure transmitters, it is possible to accurately measure the pressure which is a vital parameter for high permeability measurements
- ✓ Pressure regulator $\times 2$ (one of them for low pressure preferably pressures lower than 4 psi and the other for pressures up to 110 psi)
- ✓ Using NUPRO valves, no heating of valves are experienced enhances the accuracy of measured permeability
- ✓ Flow meter $\times 2$ (one of them for low permeability samples and the other for high permeability samples)
- ✓ Automatic Pneumatic NUPRO valves $\times 4$ (these valves are the same as used in CoreLab equipments)
- ✓ Wetted Parts Material: S.S.316L (Except for Automatic Valves)
- ✓ Sample Diameter: 1 or 1.5" (Others Available Upon Request)
- ✓ Keller Pressure Transmitters Accuracy: 0.05 % F.S
- ✓ NUPRO Metering valve for klengenberg effect $\times 2$
- ✓ Applicable for any circular and cylindrical sample
- ✓ Sample length: based on the client order up to 4"
- ✓ Applicable to measure the klengenberg effect
- ✓ Differential pressure measurement $\times 1$
- ✓ Permeability range: 0.01-3000 mD
- ✓ Inlet Pressure Gauge $\times 2$ (16 bar)
- ✓ Sealing Parts Material: Viton
- ✓ Main Cell: Easy Load Type
- ✓ Pressure Transmitters $\times 1$
- ✓ Max. Pressure: 8 bar

Catalogue
كتالوج



✓ P.C. Port: USB