

Drop Shape Analysis System

Measurement of Interfacial Tension and Contact Angle

Measurement of interfacial tension (IFT) at reservoir conditions is critical both for the IFT measurement at harsh reservoir condition and measuring gas MMP (minimum miscibility pressure) for special gas EOR process.

Experiment Description

A camera connected to a computer records the shape of the liquid drop to estimate interface properties. The Drop Shape software allows the fast estimation of interfacial tension of pendent drops and contact angles of sessile drops.



Specification	IFT -BR01	IFT -PR01
IFT Measuring Range	5 – 50 mN/m	1 – 72 mN/m
Interfacial Tension Accuracy	0.5 mN/m	0.2 mN/m
Contact Angle	5° - 175°	5° - 175°
Contact Angle Accuracy	0.5°	0.1°
Temperature	Ambient to 120 °C	Ambient
Max. Working Pressure	6000 Psi	Ambient
Stainless Steel Material	✓	✓
Input Power Supply: 220 VAC, 50Hz	✓	✓
Computer system	✓	✓
Manual Drop Lodging System	✓	✓
Automatic data Acquisition and Monitoring, Image Capturing and Processing Software Systems	✓	✓
Temperature Accuracy: 0.5°C	✓	✗
Pressure Accuracy: ±0.5% F.S.	✓	✗
Cell Volume: 20 cc	✓	✗

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