

Drop Shape Analysis System

Measurement of Interfacial Tension and Contact Angle

Measurement of interfacial tension at reservoir conditions is critical both for the IFT measurement at harsh reservoir condition and minimum miscibility pressure measurement if gas is used as the EOR agent.

Experiment Description

A liquid drop is brought in contact with gas or solid in a cell at reservoir conditions. A camera connected to a computer records the shape of the liquid drop to estimate the interfacial and contact angle properties. The Drop Shape Analysis System software allows the fast estimation of surface and interfacial tension of pendent drop and contact angles of sessile drops.



Specification	DAS -BR.1	DAS -PR.1	HDS- PS.1	HDS- PS.2
IFT Measuring Range	0 – 72 mN/m	0 – 72 mN/m	2 – 72 mN/m	2 – 72 mN/m
Working Temperature	Ambient	Ambient	Ambient to 120 °C	Ambient to 120 °C
Max. Working Pressure	Ambient	Ambient	600 Psi	1000 Psi
Dosing System	Manual	Automatic	Manual	Automatic
Input Power Supply	220 VAC, 50/60 Hz	220 VAC, 50/60 Hz	220 VAC, 50/60 Hz	220 VAC, 50/60 Hz
Wetted Material	Glass & Stainless Steel	Glass & Stainless Steel	Glass (Quartz) & Stainless Steel	Glass (Quartz) & Stainless Steel/Hastelloy
Image Capturing and Processing Software	✓	✓	✓	✓
Contact Angle Measurement System	✓	✓	✓	✓
Computer system	✓	✓	✓	✓
Automatic data Acquisition and Monitoring	✗	✓	✓	✓
Pressure Accuracy	✗	✗	0.00 % FS	0.00 % FS

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