

Emulsion Stability Tester

DWY-2

Overseas
Oil
Services



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Emulsion Stability Tester (DWY-2)

The demulsification voltage tester is a sine wave instrument that is precise, concise, and portable. Used for measuring the relative electrical strength of drilling fluids with continuous oil phases in routine on-site and laboratory settings.

The demulsification voltage tester consists of testing instruments and probes, and is powered by four common 9-volt alkaline batteries. The breakdown voltage of dielectric is the key to the conductivity of drilling fluid, and the DC power supply of the battery provides an AC voltage to the electrodes at low frequencies.

The components of the instrument include a testing unit, electrode probes, two calibration blocks, a power cord, and four batteries.



OVERSEAS OIL
SERVICES INC.

- 325 N. St. Paul Street, Dallas, TX, 75201, USA.
- Sussex Centre, 90 Burnhamthorpe Road West, Suit 1400, Mississauga, Ontario, L5B 3C3, Canada.



Specification



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Temperature range for use	0–50°C (32–122°F)
Maximum test temperature of probe	120 ± 5°F(49 ± 3°C)
Storage temperature range	-20--70°C (-4--158°F) (No battery)
Accuracy	± 2% of expected value
Automatic power-off time	1 minute
Output frequency	340±2Hz
Output waveform	sine wave
Output voltage range	0-2025V ± 25V (effective value 1432V)
Demulsification current	61 microamperes
Voltage display	Digital LCD display
Voltage rise rate	150 ± 10V/s
Power Supply	4 9V alkaline batteries
Battery lifespan	Approximately 260 tests can be conducted
Probe and cable length	85cm (3.35in)
Probe electrode spacing	0.155cm (0.061in)

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