

# Advanced Emulsion Stability Meter

**Brand:** OFI Testing Equipment, Inc.  
**Product Code:** 131-56  
**Availability:** 4  
**Lead Time:** 90

## Description

### Introduction

The Electrical Stability (ES) of an oil-based drilling fluid is directly related to its emulsion stability and oil wetting ability. The Emulsion Stability Meter determines ES by applying a precision voltage-ramped sinusoidal signal across a pair of parallel flat plate electrodes that are immersed in the fluid. The resulting current remains low until a threshold voltage ( $61 \pm 5 \mu\text{A}$ ) is reached. Then the current rises very rapidly. The point at which the fluid becomes conductive is the peak volts measured when the current reaches the 61  $\mu\text{A}$  point.

The Advanced Emulsion Stability Meter combines the reliable technology of the Standard ES Meter with a set of advanced features that enable you to go beyond standard testing. It can accept power from an AC source, a DC source, 9 volt batteries (4), or a computer USB port. The PC software stored on the meter provides advanced control and reporting capabilities. And the probe connection has been improved to prevent test fluid from damaging the internal components.

## Features

- Organizes tests into Test Groups and can be exported to any hard drive
- Improved probe connection prevents damage from test fluid
- Two Calibration Check Probes Included
- Embedded software enables advanced testing capabilities, test history, and remote operation
- Included thermocouple records and displays fluid temperature
- Manufactured in accordance with the API 13B-2
- Operates on either AC power cord, DC power adapter, cigarette lighter, four 9 volt alkaline batteries, or USB power cable

## Specifications

## Meter

- Wave form: Sine, < 5% total harmonic distortion
- AC Frequency:  $340 \pm 10$  Hz
- Output Units: Peak Volts
- Ramp Rate:  $150 \pm 10$  Volts per second, automatic operation
- Minimum Output Range: 3 - 2,000 Volts (Peak)
- Trip Current:  $61 \pm 5$   $\mu$ A
- Size: 10.67"  $\times$  9.75"  $\times$  4.86" (27  $\times$  25  $\times$  12 cm)
- Weight: 6 lb (2.72 kg)
- Shipping Size: 11"  $\times$  11"  $\times$  7" (28  $\times$  28  $\times$  18 cm)
- Shipping Weight: 10 lb (4.54 kg)

## Electrode

- Housing: Material resistant to oil mud components up to 220°F (105°C)
- Material: Corrosion-resistant metal
- Diameter: 0.125"  $\pm$  0.001" (3.18  $\pm$  0.03 mm)
- Spacing (gap): 0.061"  $\pm$  0.001" (1.55  $\pm$  0.03 mm) at 72°F (22°C)

## Product Gallery

