



## DRILLING FLUIDS EQUIPMENT

For over 30 years OFI Testing Equipment (OFITE) has provided instruments and reagents for testing drilling fluids, well cements, completion fluids, and wastewater. In addition to these product lines we also offer a range of instruments for core analysis. From our manufacturing facility in Houston, TX we provide customers all over the world with quality products and exceptional service.

Our drilling fluids product line includes innovative designs such as the Model 900 Viscometer, which showcases our ability to develop new technology to meet customer and industry demands. We also offer Retorts, Aging Cells, Roller Ovens, Mud Balances, Filter Presses, and all other instruments required to evaluate drilling fluid properties according to API Recommended Practice 13B-1 and 13B-2.

As an independent manufacturer and supplier, OFITE has one priority, our customers.

## OLR Series 1000 OnLine Rheometer

The OnLine Rheometer (OLR) is designed to continuously measure, plot, and report the rheological properties of drilling, completion, and fracturing fluids in the pipe. The OLR uses a squeeze-flow technique; it measures storage and loss moduli by imposing a small cyclic deformation on a liquid sample at a variety of frequencies, from 1-100 Hz. Quality control parameters and user interface are based on  $\eta^*$  (complex viscosity [Pa s]), as measured by the OLR. The response of the liquid is measured and displayed in terms of  $G'$  (storage modulus [Pa]),  $G''$  (loss modulus [Pa]),  $\delta$  (phase angle [Degrees]), and  $\eta^*$ .

## Features

- Fast and Reliable Real Time Results
- Low Maintenance
- Out of Specification Diagnosis
- Plug-and-Play Installation
- Precise and Robust Sensor System
- Process Control
- Process Monitoring
- Quality Control
- State of the Art Technology
- Time and Cost Savings





## Technical Specifications and Requirements

- Part Number: #340-00

### Specifications

- Frequency Range: 1 - 100 Hz
- Viscosity Measurement Range (geometry dependent): 0.25 - 200,000 Pa s
- Force Range: 0 - 44.48 N
- Operating Range:
  - Temperature: 14° - 230°F (-10° - 110°C)
  - Pressure: 0.7 - 145 psi (4.8 - 1,000 kPa)
- Temperature Measurement: RTD PT100 Ohm, Class A
- Size: 11.6" × 18.1" × 23.8" (30 × 46 × 61 cm)
- Weight: 145 lb (65 kg)

### Requirements

- Electrical:
  - Input: 115 - 230 VAC, 50/60 Hz
  - Output: 24 VDC
- Power Input Maximum: 10 W
- Fuses: 24V, 5A
- Suitable for 1" to 8" pipe (DN25 - DN200)

## Software (SOLR) Features

- Set-up of process monitoring and quality control parameters
- Monitoring and control of process either through SOLR or through the factory PLC
- Out-of-specification product diagnosis

