



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.



Mud Watcher

Drilling fluid measurement is essential for safe and efficient rig operation. Manually collecting and testing mud samples is slow and time consuming for rig personnel.

The Mud Watcher automatically measures the temperature, density, and viscosity of drilling fluid on the rig and sends the data directly to the rig data acquisition system, mud logging unit, or dedicated data acquisition system. It is designed to be installed, operated autonomously, and maintained by the existing rig crew, with no specialized skills required.

The Mud Watcher provides a steady stream of data, alerting mud engineers to possible problems much more quickly than conventional testing procedures. This reduces risk to personnel while providing accurate and timely measurements to enhance overall decision making, leading to higher efficiency, well quality, and productivity.

Features

- Continuous monitoring of drilling fluid density and viscosity. Density is displayed in customer selected units. Viscosity may be displayed as centipoise, centistokes, or funnel viscosity.
- Data is exported as an intrinsically safe analog signal to the rig data acquisition system, mud logging unit, or a dedicated data acquisition system.
- Provides an early indication of developing hole or drilling fluid changes that may be precursors to drilling problems
- Reduces rig crew exposure to noise and fumes within the shaker house
- Accurate, reliable, and easy to operate and maintain
- No requirement for dedicated / specialist service engineers. Operated and maintained by existing rig crews.
- Releases rig crews for more productive tasks





Technical Specifications and Requirements

- #350-00 Mud Watcher

Specifications

- Density Range: .9 - 2.64 sg (7.5 - 22 ppg)
- Viscosity: Equivalent Funnel Viscosity Seconds
- Viscosity Range: up to 20,000 cP (equivalent)
- Min/max ambient temperature: -4 - 176°F (-20 to 80°C)
- Electrical interface size: Standard plug, can be adapted
- Air supply consumption: 20cfm / 40cuM/hr, < 7bar
- IP rating: IP 65 minimum for all parts
- Available signals: Temperature, Density and Viscosity, 4-20mA, Active, Powered
- Max suction pressure (lifting height): Dry 4m, Wet 8m
- Size: 68" × 28" × 28" (173 × 72 × 72 cm)
- Weight: 551 lb (250 kg)

Requirements

- Electrical: 85 - 264 VAC, 2 Amp, 50/60 Hz
- Air: 100 psi (689.5 kPa) max at 20 cfm, ½", ANSI B16.5, 150#