



## 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.

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## Digital Resistivity Meter

The Digital Resistivity Meter accurately measures the resistivity of fluids, slurries, and semisolids having resistivities from 0.01 to 400 ohm-meters. The digital display shows both resistivity (in ohm-meters) and concentration of NaCl (in ppm, kppm, and gr/gal), as well as temperature (in °C or °F).



## Features

- Equipped with a digital readout for higher accuracy
- LCD display makes measurements easy to read
- Built-in calibration tests make calibrations simple
- Automatic NaCl Measurements - no longer have to manually use a nomograph
- Lucite® Cell - transparent and removable, making it easy to clean

## Technical Specifications and Requirements

- #130-87 Digital Resistivity Meter

### Specifications

- Resistivity Range - 0.01 to 400 Ohm-Meters
- Temperature Range - 14 to 140°F (-10 to 60°C)
- NaCl Measurements - ppm, kppm, gr/gal
- NaCl Range - 0.2 to 300 kppm
- Power Requirements - Two 9-Volt Batteries. Optional

## Intro

The OFITE Digital Resistivity Meter is a portable measuring device designed to give a quick, reliable measurement of the resistivity of a small sample expressed in ohm-meters. The transistorized meter accurately measures the resistivity of fluids, slurries and semisolids having resistivities from 0.01 to 400 ohm-meters. The digital display shows both resistivity (in ohm-meters) and concentration of NaCl (in ppm, kppm, and gr/gal), as well as temperature (in °C or °F).

The transparent lucite cell may be easily removed and cleaned. The meter is powered by readily available 9 volt batteries and it is rugged and suitable for field usage.

## Specifications

Cell Length: 3.4" (86.4 mm)  
Carrying Case: 8.0" × 5.0" × 3.5" (203 × 126 × 88 mm)  
Power Supply: 2 9-Volt Alkaline Batteries or 12-Volt DC Plug (for connecting to car battery or 12-Volt AC adapter)  
Resistivity Range: 0.01 – 400 ohm-meters  
Temperature Range: 14 – 140°F (-10 - 60°C)  
NaCl Range: .2 – 300 kppm

The OFITE Digital Resistivity Meter can measure results in four different ranges. The electronic automatically switch to the appropriate range based on the readings from the test. The ranges and readabilities are listed below (in ohm\*meters):

0.000 - 0.499 Readability: .001  
0.50 - 4.99 Readability: .01  
5.0 - 49.9 Readability: .1  
50 - 499 Readability: 1



Note

Exact ranges will vary due to cell calibration and electronic current source calibration.

## Components

#130-85-04 Rubber Suction Bulb  
#130-87-05 Resistivity Probe Assembly without Thermometer  
#147-02 Battery, Alkaline, 9 Volt, Qty: 2  
#165-43 Pipe Cleaner

Optional:

#130-87-014 Calibration Standard, 1,413 Microsiemens  
#130-87-015 Calibration Standard, 10,000 Microsiemens  
#130-87-016 Calibration Standard, 50,000 Microsiemens