

# Resistivity Meter

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## DZL-88



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# Resistivity Meter (DZL-88)

## Overview

Mud resistivity tester is mainly used to test the resistivity or conductivity of various liquids, suitable for measuring the resistivity of oilfield drilling fluids and other industrial liquids. It can also provide reference for analyzing the mineralization degree of liquids and identifying the purity of water. It is an ideal liquid resistivity measuring instrument for indoor or outdoor use. Therefore, it can be widely applied in departments such as petroleum, geology and mining, drilling teams, and laboratories.



## Function

1. Measure the electrical resistivity of liquids;
2. Measure the temperature of the liquid;
3. Automatic conversion of resistivity at standard temperature;
4. Setting of standard temperature;
5. Self checking of measuring instruments;
6. The measuring instrument is equipped with a rechargeable battery pack.



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



## Structure and working principle of the instrument

### (1) Composition

It includes a timer, stainless steel cylinder, test probe, etc. The stainless steel cylinder has a diameter of 1 centimeter at one end and 1.8 centimeters at the other end.

### (2) Working principle

The capillary suction time measuring instrument measures the time required for various test solutions and shale powder slurries to permeate a certain distance through specially designed filter paper. This value is called the CST value. Its size is related to factors such as the properties of the liquid and the dispensability of colloids, and can be used to determine the degree of colloidal dispersion of shale in water. The smaller the CST value, the better the inhibitory effect, and its minimum value indicates:

- (1) the minimum shale hydration effect;
- (2) Minimum colloidal dispersion;
- (3) The lowest shale activity.



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Working power supply	AC 220V±10%; 50±1Hz
After charging its own battery, it can work continuously	30 hours
Working environment temperature	10~50°C
Measuring range	0.01~400Ω·m
Measurement uncertainty	5%
Measuring temperature range	10-50°C, accuracy within ± 1 °C
Standard temperature setting	15-35°C, with a step value of 1°C



# Specification

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