

— RTS1000C —

High-Temperature Conductive Material Resistivity Test System



High Measurement Accuracy



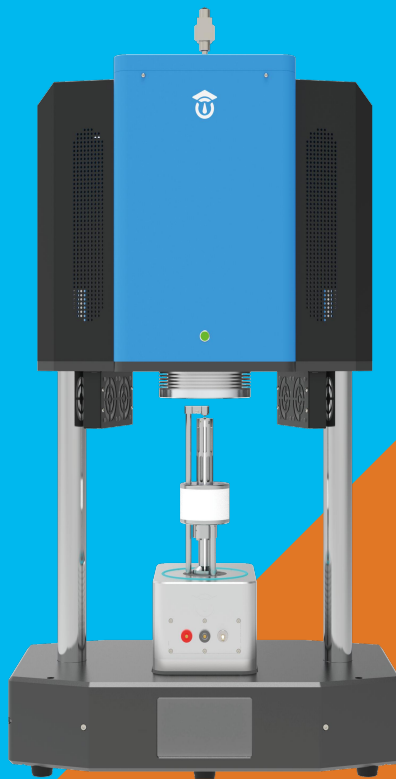
Original Design



Built-in WiFi



Integrated Design



Overseas website: www.matmeas.com
Chinese website: www.balab.com.cn

Product Introduction

The RTS1000C series high-temperature conductive resistance test system is mainly used for evaluating and testing the conductive performance of conductive materials. Designed and developed based on the four-wire resistance measurement principle, the system can measure the resistance and resistivity of conductive materials under high-temperature and vacuum/ atmosphere conditions, and analyze the curves of the measured samples' resistance and resistivity as they change with temperature and time. Currently, it specifically targets test samples such as discs, squares, and rectangular strips. It can be widely utilized for resistivity measurements of materials including carbon-based conductive materials, metal-based conductive materials, metal oxide-based conductive materials, structural polymer conductive materials, and composite conductive materials



Functional Features

- 01

Calmly tackles the challenges of low-resistance measurement, filling the gap in the domestic market.
- 02

High equipment measurement precision; stable data without dropping points and requires no correction
- 03

The left and right electrodes are made of platinum, and the middle probe is made of high-temperature resistant tungsten carbide, ensuring superior contact
- 04

Delivers low resistivity measurement solutions ranging between 10nΩ-100MΩ
- 05

Provides multiple measurement functions to comprehensively evaluate material conductive performance
- 06

Features integrated design, making user operation simpler, maintenance more convenient, and stability higher
- 07

A dual combination of low voltage and low resistance to challenge your diverse measurement needs
- 08

Insulation and support components use 99 zirconia, featuring high-temperature resistance, oxidation resistance, and low contact resistance
- 09

Specifically designed for low-resistance measurements to identify highly conductive materials, nanomaterials, and superconducting materials
- 10

The software can monitor temperature measurements and temperature control curves in real time, achieving precise fault localization

Parameter Specifications

Temperature Range:RT-600°C	Measurement Method :Four-Wire Resistance Method
Temperature Control Accuracy: ±1°C	Sample Size :15–25 mm Diameter
Temperature Control Method:PID precise temperature control	Electrode Material :Tungsten Carbide Needle
Heating Slope :0-10°C/min (Typical value: 3°C/min)	Power Supply :220V ±10%, 50Hz
Resistance Measurement Range:10 nΩ-100 MΩ	Dimensions :630 × 640 × 450 mm
Resistivity Measurement Range:10 nΩ.cm-100 MΩ.cm	Warranty :1 Year

Standard Configuration: Main unit, measurement fixture, measurement software, power cord, factory inspection report, standard sample toolbox, user manual