

# DMS1000

## High Temperature Dielectric Impedance Temperature Spectrometer



High measurement accuracy



Strong functionality



Good repeatability



Integrated design



## Product Introduction

Dozens of engineers and users from Goodlab have meticulously adjusted, overturned, and resolved the issue, giving a new definition to the high-temperature dielectric impedance temperature spectrometer. The all-new DMS1000 not only upgrades the electrode fixture measurement platform, but also enables the measurement of single sample and four sample bulk materials; We also upgraded the sealable metal shielding heating system, which can achieve more measurement environments

(such as inert atmosphere, oxidizing atmosphere, reducing atmosphere, vacuum atmosphere) to meet the diverse needs of scientific research.



## Functional Features

### 01

Drawing on the temperature field design concept of a thermal analyzer, the vertical mouth of the furnace is facing downwards, and the furnace moving fixture is fixed in place.

### 02

Built in metal shielding design to avoid AC interference and improve measurement accuracy.

### 03

Using high-purity platinum electrodes, it is resistant to high temperatures and oxidation, with low contact resistance.

### 04

Single factory sample pressure test, maximum 0.25N, to ensure that the measurement process does not damage the sample.

### 05

DMS1000 has good software compatibility, enabling unlimited expansion and application.

### 06

The software can monitor temperature measurement and temperature control curves in real time, achieving precise positioning of measurement faults.

### 07

The temperature sensor is in the same plane as the sample, ensuring that the temperature collected by the sample each time is the actual temperature.

### 08

Before leaving the factory, standard barium titanate samples are used for high-temperature calibration to ensure reliable and stable experimental measurement temperature.

### 09

Teaching interconnection, opening up a new mode of training and after-sales service.

### 10

Integrated design, built-in commonly used key measurement parameters, five step operation, easy to obtain the best measurement results.

## Parameter specifications

Temperature range: RT-1000 °C (long-term operation at 800 °C)

Measurement accuracy: 0.05%

Temperature control accuracy:  $\pm 0.5$  °C

Sample specifications:  $\phi < 20\text{mm}$ ,  $d < 5\text{mm}$

Temperature control method: PID precise temperature control

Electrode material: upper and lower platinum electrodes

Heating slope: 0-10 °C/min (typical value 3 °C/min)

Power supply: 220V/50Hz-60Hz, 1600W

Frequency range: 20Hz-30MHz (single channel)

Size: 665X480X602mm

20Hz~10MHz (four channels)

Warranty period: One year

Standard configuration: host, measuring fixture, measuring software, power cord, factory inspection report, standard sample toolbox, instruction manual