

# Thermogravimetric Analyzer BXT-TGA-101

## Product introduction

Thermogravimetry (TG, TGA) is to observe the change of sample quality with temperature or time in the process of heating, constant temperature or cooling, so as to study the thermal stability and components of materials. It is widely used in research and development, process optimization and quality control of plastics, rubber, coatings, drugs, catalysts, inorganic materials, metal materials and composite materials. The following properties of materials were measured and studied: thermal stability, decomposition process, adsorption and desorption, oxidation and reduction, quantitative analysis of components, influence of additives and fillers, water and volatile matter, reaction kinetic.

## Main features

1. The balance has its own internal calibration function, with better accuracy and repeatability.
2. It adopts imported alloy sensor, which is more corrosion-resistant, anti-oxidation and high sensitivity.
3. The furnace body is heated by precious metal alloy wire, which reduces interference and is more resistant to high temperature.
4. Perfect atmosphere control system, automatic switching of software settings, data directly recorded in the database.
5. the ARM controller with Cortex-M3 core is adopted, which makes the operation speed faster and the temperature control more accurate.
6. USB two-way communication is adopted to fully realize intelligent operation.
7. Adopt 7-inch 24bit color full-color LCD touch screen to display the status and data of the instrument in real time.
8. The upper cover opening structure is adopted for convenient operation. It is very difficult to move the furnace body upward to place the sample, which is easy to cause damage to the sample rod.
9. Automatically generate test report and print it. The test record, data processing and report format are built in the software, and the test report is automatically issued



## Parameters

Temperature range	Room temperature ~ 1250 °C
Temperature resolution	0.01 °C
Temperature fluctuation	± 0.1 °C
Heating rate	0.1 ~ 100 °C / min
Temperature control mode	heating and constant temperature
Measurement range of balance	0.01mg-2g
Resolution	0.01ug
Constant temperature time	0-300min, arbitrary setting
Display mode	large English LCD
Atmosphere	inert, oxidizing, reducing, static and dynamic
Atmosphere device	built in gas flowmeter , including two-way gas switching and flow size control
Software	intelligent software can automatically record TG curve for data processing and printing test report
Data interface	standard USB interface, special software (free upgrade of software from time to time)
Power supply	AC220V 50Hz

### Standard :

GB/T 19466.2-2004 / ISO 11357-2: 1999 Part 2: Determination of glass transition temperature; GB/T 19466.3-2004 / ISO 11357-3: 1999 Part 3: Determination of melting and crystallization temperature and enthalpy;  
GB/T 19466.4-2016/ISO 11357-4:1999 Part 4: Determination of specific heat capacity;  
GB/T 19466.6-2009/ISO 11357-3:1999 Part 6 Oxidation induction period: Determination of oxidation induction time (isothermal OIT) and oxidation induction temperature (dynamic OIT).