

GB-DK Headspace Gas Analyzer



Product Introduction

The headspace gas analyzer adopts the destructive puncture detection method and is equipped with high-precision oxygen sensors and carbon dioxide sensors to accurately detect the O₂ and CO₂ content of hollow packaging containers such as packaging bags, bottles, cans, etc. The analysis of the content of the headspace gas in the packaging can make a reasonable judgment on the product quality, the validity of the shelf life prediction, and the rationality of the packaging design.

At the same time, it can also be used as a means of packaging tightness testing. It is a better choice for modified atmosphere preservation (MAP, CAP) packaging, large infusion bottles (bags), residual oxygen in the

headspace of prefilled needles, residual oxygen detection in vials, and the results of residual oxygen detection for various food and medicines.

Nowadays, the headspace gas analyzer has become an important method to check the quality of packaging design and one of the important methods to verify the product shelf life. Our headspace gas analyzer GB-DK can quickly detect O₂ in production lines, warehouses, laboratories and other occasions. And CO₂ content to guide production.

Test principle

The gas in the sample is drawn into the sensor by a vacuum pump. The sensor outputs the current and voltage signals of the O₂ and CO₂ (optional) concentration in the gas in the sample in real time. The instrument calculates the content of O₂ and CO₂ in the gas by obtaining the current and voltage signals output by the sensor. After reaching the end conditions of the experiment, the test stops, and the instrument records the concentration of O₂ and CO₂ in the measured gas in the sample.

Technical parameter

Item	Parameter	
Gas to be Measured	O ₂ (standard configuration)	CO ₂ (optional)
Measurement Principle	Fluorescence optics	infrared absorption

Measurement Range	0%~25%	0%~100%
Measurement Accuracy	$\pm 0.2\%$	$\pm 2\%$
Sample Size	≥ 5 ml (standard atmospheric pressure)	≥ 20 ml (standard atmospheric pressure)
Dimensions	350 mm (L) \times 330 mm(W) \times 200 mm(H)	
Power Supply	220 VAC $\pm 10\%$ 50Hz/120 VAC $\pm 10\%$ 60 Hz	
Net Weight	5kg	

Features

1.Using high-precision sensors, high accuracy, good stability, long-term operation, long service life. Over-range automatic protection function to avoid damage to important sensors when the instrument fails.

2.The needle/probe safety holster is used to ensure safe testing and fast sampling.

3.Oxygen and carbon dioxide can be detected at the same time, and carbon dioxide gas can be selected for analysis according to different user needs. The sampling volume is at least 3 ml.

4.Built-in operating system, the system is equipped with an ARM control system to control the host through a touch screen (testing equipment and control software are combined into one); at the same time, the system can be expanded, such as connecting to the laboratory LIMS system.

5.The software is designed according to the requirements of the

computerized system in the new version of the GMP appendix, and users are divided into multiple levels such as operators and administrators (such as administrators, operators, observers, etc. but not limited to these levels).

6.It has the audit trail function, which can realize the audit trail of the system, project operation, and method to ensure the safety and integrity of the test data.

7.Personalize the test report, set the report module that needs to be displayed, and output the report in PDF mode. The micro printer can print test reports in real time.

Application Field



Food bag packaging



Food container packaging



Medicine bag packaging



Pharmaceutical container packaging



Modified atmosphere lock fresh packaging Ampoules and other medicinal glass packaging

Configuration

Standard configuration: the machine, micro printer, sampling needle, filter, gasket.

Optional parts: CO2 sensor, professional software, communication cable, rigid packaging sampler, underwater sampling device.

Services

1. Provide free packaging inspection technical support.

2. One-year warranty, free software upgrade services, and free lifetime technical supports.
3. Free training on instrument operation, qualified candidates will be awarded a diploma, and free board and lodging will be provided.
4. “Replace the old for the new” policy, and provide backup instruments for use in the event of failure.
5. A testing center (CNAS L8185) is set up to provide customers with sample testing and sample data comparison services.
6. Set up a reference material(RM) development center to provide customers with instrument calibration services.

Company Profile

Guangzhou Biaoji Packaging Equipment Co., Ltd. was established in 2002 and is headquartered in Guangzhou Economic Development Zone. It is a company that integrates R&D, production and sales of packaging testing equipment, packaging equipment, biodegradable, modified atmosphere preservation equipment and other products, and provides third-party testing and standards. GBPI, which have also involved in material proficiency testing, have provided the most competitive laboratory construction solutions for more than 10,000 enterprises and institutions in

more than 40 countries and regions around the world, with services covering quality inspection and drug inspection institutions, scientific research institutions, packaging, printing, food, Pharmaceutical, daily chemical, chemical, new energy, new materials and other fields.

After more than 20 years of efforts by Biaoji people and the support of our customers, the scale of production and operation and product quality have reached the leading level in the country. The company has an advanced R&D team, large factories, three marketing centers, CNAS certification laboratory, inspection and testing agency qualification (CMA), national standard material development center, etc., Standard will always play the role of a leader in packaging solutions for customers Work hard to provide quality products and services!

Guangzhou Biaoji Packaging Equipment Co., Ltd.

Address: No. 1, Minghua 3rd Street, Jinxiu Road, Guangzhou Economic and Technological Development Zone

Mob/ Whatsapp: 0086-18588767421

After-sales hotline: 400-788-6855 Fax: 020-82087405

Website: <https://www.gbpitester.com>



Representantes / Distribuidores Exclusivos

 Argentina

Tel: (+54 11) 5352 2500

Email: info@dastecsrl.com.ar

Web: www.dastecsrl.com.ar