

Headspace Gas Analyzer GB-DK

广州标际包装设备有限公司

Guangzhou Biaoji Packaging Equipment Co., Ltd.

Product Introduction

The GB-DK headspace gas analyzer adopts destructive puncture detection method to work. It is equipped with high-precision oxygen sensor and carbon dioxide sensor to accurately detect the O₂ and CO₂ (optional) content of hollow packages such as packaging bags, bottles, cans, etc. The analysis of gas content in packages can make a reasonable judgment on product quality, shelf life prediction, and the rationality of packaging design. At the same time, it can also be used to test the sealing performance of packages.

It is a preferred solution for testing the residual oxygen in modified atmosphere preservation (MAP, CAP) packaging, large infusion bottles (or bags) and other various food and pharmaceutical packaging formats.



Test Principle

The gas in the sample is drawn into a sensor by a vacuum pump, then the sensor outputs the current signal and voltage signal of O₂ and CO₂ (optional) concentration in the sample in real time. The instrument will calculate the O₂ and CO₂ (optional) content in the gas with the sensor signals. When it comes to the end conditions of the experiment, the test stops, and the instrument records the tested concentration of O₂ and CO₂ (optional).

Applications



Food Bags/Pouches



Beverage Containers



Vacuum Bags



Pharmaceutical Bottles



Fresh Pack



Ampoules

Technical Specifications

Item	Parameter	
Gas	O2 (standard)	CO2 (optional)
Measurement Base	Fluorescence optics	Infrared absorption
Measurement Range	0%~25%	0%~100%
Measurement Precision	±0.2%	±2%
Sample Gas Volume	≥5 ml (standard atmospheric pressure)	≥20 ml (standard atmospheric pressure)
Dimensions	350 mm (L)×330 mm(W)×200 mm(H)	
Power Supply	220 VAC±10 %, 50Hz or 120 VAC±10%, 60 Hz	
Net Weight	5kg	

Features

- ◆ Use high-precision sensors with long working time and good stability.
- ◆ Over-range automatic protection setting to avoid damage on sensors.
- ◆ Use needle/probe safety holster to ensure safe testing and fast sampling.
- ◆ Can detect O₂ and CO₂ at the same time. The testing of CO₂ content is optional according to user's needs, and the sampling volume is at least 3 ml.
- ◆ The built-in operating software works with ARM control. Touch screen hosts and displays all the setting interface.
- ◆ The software is designed according to the requirements of computerized system in the GMP appendix. Operators are classified into multiple levels.
- ◆ It has the function of audit tracking on system running and equipment operation, which ensures the safety and integrity of test data.
- ◆ Personalized test report. User can set the report format and output report through micro printer.

Configuration

Standard parts: host machine, micro printer, sampling needle, filter, gasket.

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

Company Profile



Guangzhou Biaoji Packaging Equipment Co., Ltd.(GBPI) was established in 2002 and is headquartered in Guangzhou, China. The company integrates R&D, production, sales and customer services of packaging testing equipments and spout inserting machine. Except for production, GBPI is also running with a third-party testing laboratory. We provide testing services of film WVTR, OTR and GTR properties.

Main Products: WVTR/OTR/GTR analyzer, heat sealing tester, tensile tester, COF tester, leakage tester, thickness tester, Gas Chromtograph, heat shrink tester, impact tester, compression tester, etc.

With our R&D team, production site, marketing activities, CNAS certified laboratory, standard material development center and after-sales services, GBP has collaborated with more than 10,000 enterprises and institutions from over 40 countries. Our customers are active in fields of packaging, printing, pharmaceutical, chemical and agricultural research, so on.

New innovations in 2021-2022:



WVTR Permeability Analyzer



OTR Permeability Analyzer



Gas Permeability Analyzer



Fully Automatic Overall Migration Tester



Leakage Tester



Vacuum Decay Leak Detection Tester



Heat Seal Tester



Electronic Tensile Tester

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