PARAM® RGT-01 Vacuum Packaging Analyzer

Professional

This instrument is based on the combination of differential pressure method and fluid level analysis technique. It is the only instrument in the market so far that provides the quantitative analysis of seal performance and residual oxygen for various flexible vacuum packages.

- RGT-01 is globally first instrument used to measure the volume of residual oxygen within vacuum packages
- Top quality parts and components made by world famous brands are used to ensure reliable overall product performance
- All test parameters can be set flexibly for convenient operation

High-end

RGT-01 system utilizes Labthink's latest embedded computer control system that provides a better performance than traditional single chip system.

- Embedded computer control system provides safer and more reliable data management as well as test operation
- The system can be easily operated by a standard monitor, a keyboard and a mouse; without requiring a PC.
- The system is equipped with four USB ports and dual Internet ports for convenient input, output, and data transfer

Intelligent

The instrument is equipped with Labthink's latest intelligent operating software, with user-friendly operating interface and intelligent data management. It also supports Lystem™ Lab Data Sharing System, which ensures uniform management of test results and test reports.

- Intelligent reminding of sensor calibration
- Embedded help document for user viewing at any time
- Multi-level account control for better data management and protection
- The system utilizes embedded data saving technology to save detailed information and provide convenient and various searching and viewing functions.
- Calibration data recovery function ensures a safety data operation environment
- Supports Lystem™ Lab Data Sharing System for uniform and systematic data management

Test Principle

The vacuum test cell is composed of an outer chamber and an inner chamber. Before the test, the inner chamber, where the test specimen is placed, is completely filled with water and sealed with the sealing plate. The outer chamber, which is also the measuring chamber, is slowly injected with water to a designated level and sealed. Both chambers are thereafter evacuated until the test specimen expands. The residual oxygen within the specimen

is obtained by fluid level analysis technique associated with corresponding calculations.

Applications

This instrument is applicable to the determination of seal performance and the quantity of residual oxygen in:

Basic Applications	Vacuum Packages for Food	Including vacuum bags for food
	Vacuum Packages for Drugs	Including vacuum bags for drugs
	Vacuum Packages for Cosmetics	Including vacuum bags for cosmetics
Extended Applications	Non-Vacuum Packages for Food	Including non-vacuum bags for food
	Non-Vacuum Packages for Drugs	Including non-vacuum bags for drugs
	Non-Vacuum Packages for Cosmetics	Including non-vacuum bags for cosmetics

Technical Specifications

Specifications	Package Test
Test Range (Residual Gas)	0-15 mL (Standard) Note: As a default setting, residual oxygen volume can be obtained by multiplying this value by 20.9%. Customization is available for other test range.
Accuracy (Residual Oxygen)	±0.1 mL (Gas volume 0-5 mL) ±0.3 mL (Gas volume 5-10 mL) ±0.5 mL (Gas volume 10-15 mL)
Vacuum Degree	0~ -90 kPa
Accuracy	0.25 kPa
Port Size	Φ6 mm
Instrument Dimensions	580 mm (L) x 320 mm (W) x 540 mm (H)
Power	220VAC 50Hz / 120VAC 60Hz
Net Weight	61 kg

Configurations

Standard Configurations	Instrument, Professional Software, Standard LCD Monitor, Keyboard, Mouse and Vacuum Pump
Optional Parts	Lystem™ Lab Data Sharing System and Printer (compatible with PCL3)