

N 530 Gas Permeation Analyzer



Note :

Due to keeping innovation,
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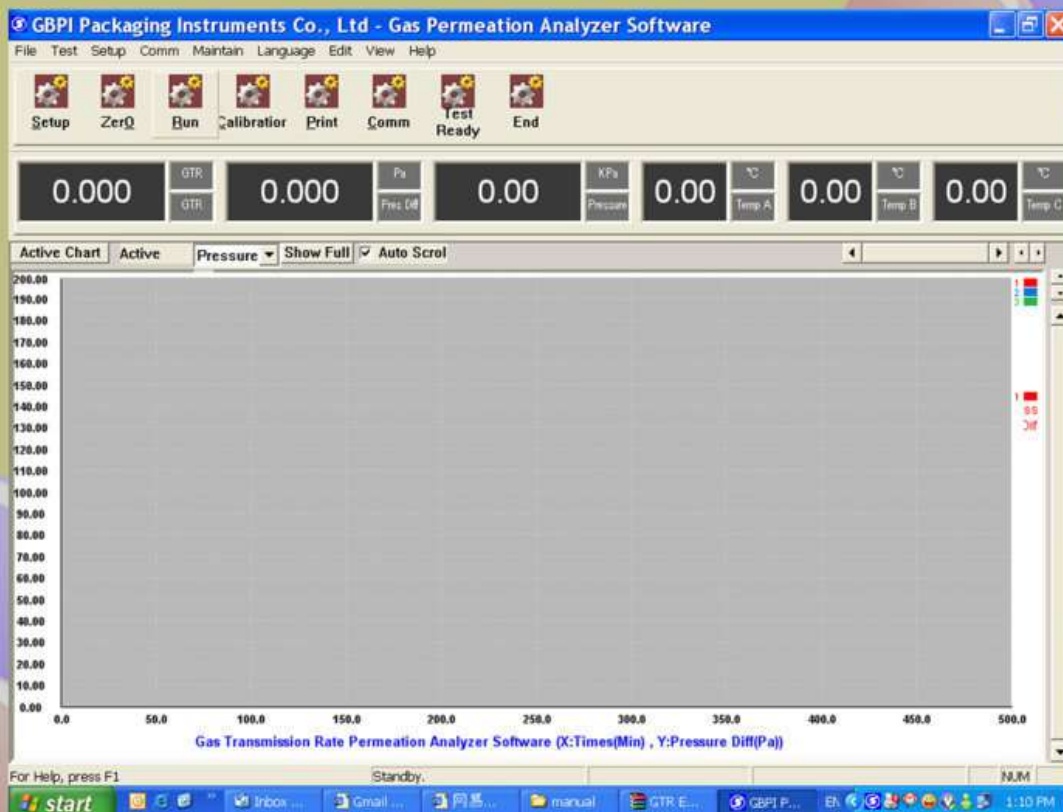
Introduction

N530 for the detection of gas permeability of various films, infusion bags and other packaging materials for O₂, CO₂, N₂ and other gases through the barrier properties. It is designed and manufactured according to the standards of ISO 2556-2001, ISO15105-1, GB / T 1038-2000, ASTM D1434-82 (2003), YBB00082003 .It has three independent testing chambers and independent temperature control system. The core is connected with computer through the USB. It can automatically judge and stop testing . The testing result is stable, curves of permeability rate ,temperature, pressure and different pressure will be shown at the same time. The test report will generate automatically while the data automatically stored. It also support TCP/IP protocol. There are three measuring range that can be enlarged.

Test principles

N 530 Gas Permeation Analyzer designed using the principle of differential pressure method, preparation samples will be placed between in the test chamber with high / low pressure , and clamping it ,then make the whole test system to have a vacuum processed, input test gas the high-pressure test chamber to ensure on both sides of the test samples have a constant pressure, the gas under the role of pressure pass through film from high-pressure chamber to the low pressure chamber to infiltrate, observe the changes pressure in low-pressure chamber to

Software Interface



Specifications

Measuring range	: 0.02 ~ 50000 cm ³ /m ² • day • 0.1Mpa (Through the expansion of volume cap can test 600000 cm ³ /m ² • day • 0.1Mpa)
Measurement Accuracy	: 0.01cm ³ /m ² • day • 0.1MPa
Temperature range	: 15 ~ 45 °C (standard temperature of 23 °C)
Temperature Accuracy	: ± 0.01 °C
Vacuum accuracy	: 0.1Pa
Test pressure	: -0.1Mpa ~ +0.1 Mpa
Test gas	: O ₂ , CO ₂ , N ₂ and other gases
Air Pressure	: 0.1Mpa ~ 0.8Mpa
Specimen size	: Φ80mm, through an area of 50.24 cm ²
Sample	: 3(extension up to more pieces)
Carrier gas interface	: 1 / 8 inch
Sample thickness	: ≤ 2mm Power: AC 220V /50HZ
Instrument weigh	: 75 Kg.
Gloss weight	: 90 Kg.
Dimension	: 80 cm×56 cm×40 cm

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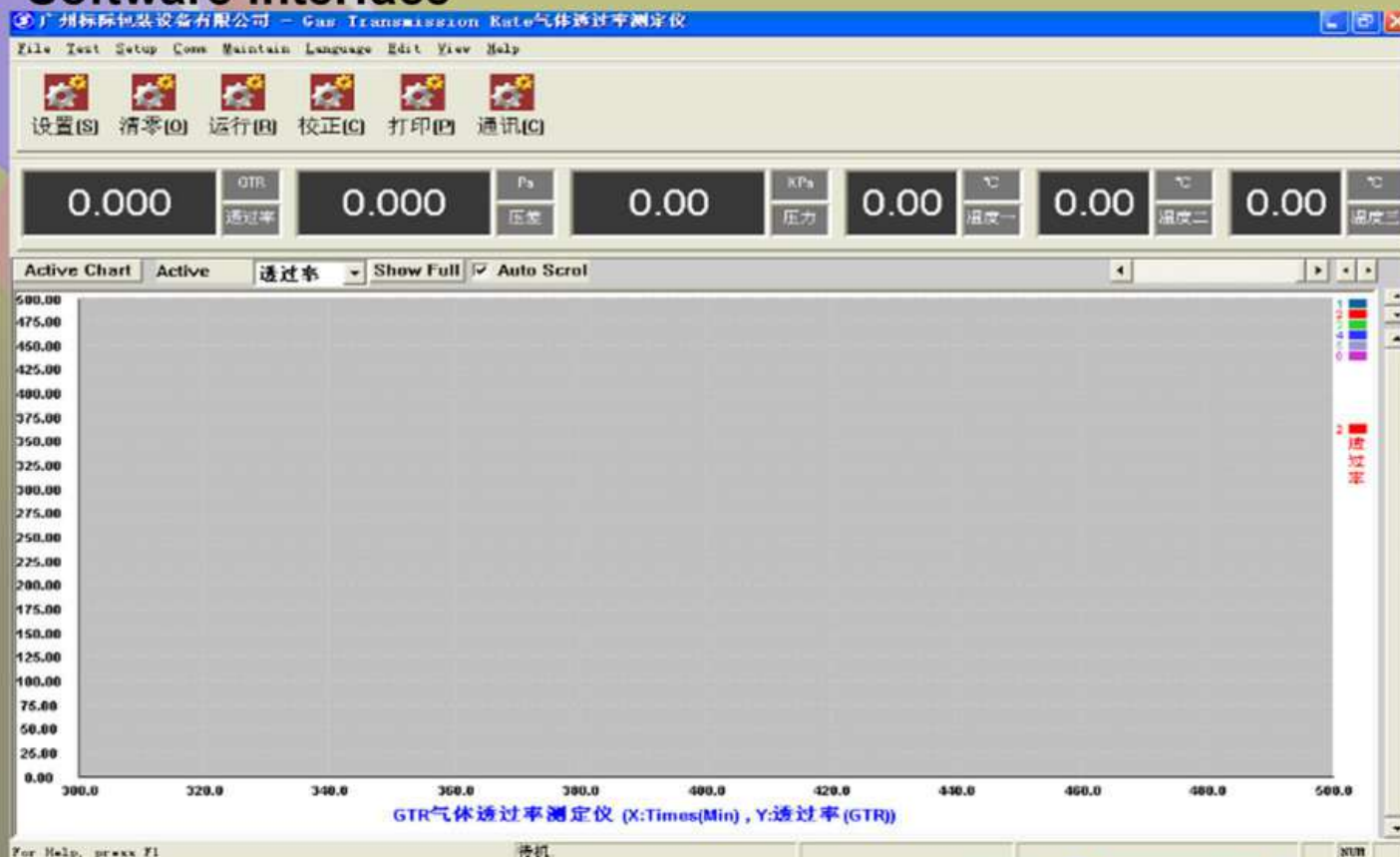
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Features

1. Computer automatically control three chambers of testing ,can test different samples, Configuration three independent sensors, each chamber can be set different temperatures. First creating positive and negative pressure dual-mode testing, leading international standard.
2. The sample can be tested by single chamber, or double chambers or three chambers .
3. Separately show the curve of transmission, pressure, pressure value and temperature.
4. High or low levels of barrier test, repeat excellent performance.

6. High and low resistance ,two kinds of test mode
7. Excellent test reproducibility.
8. An excellent environmental adaptability, no special requirements on the environment.
9. Real-time display of each point transmission, through the transmittance curve, can understand the testing process.
10. The curves of each chamber's temperature, humidity, weight, and transmission display independently, continous to display four- groups-curve, can monitor the interaction of parameters at the same time.
11. Software interface is simple and easy to operate, automatically test.
12. Overpressure protection
13. Software interface is simple and easy to operate, automatically save the test report can be printed and other parameters and the transmittance curve of the report.
14. Optional pairs of air humidity controlling devices, more precise of controlling wet.
15. Calibration method of standard film.

Software interface



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Configuration

Standard : host, software, cable, vacuum grease, sampling cutter, valves and pipes for gas flow

User-owned

Oxygen(99.999%), nitrogen (99.999%), carbon dioxide (99.99%) of high purity gas bottle valve , one computer .