

C650M Headspace Gas Analyzer

C650M Headspace Gas Analyzer is featured with handheld design and equipped with high precision sensors and air pump supplied by globally well-known manufacturers. It can provide accurate and fast evaluation of the volume of oxygen and carbon dioxide (with optional CO₂ sensor) in sealed packages, bottles and cans, etc. Because of its portable design, the instrument can be used to measure the volume and proportion of oxygen and carbon dioxide on production lines, in warehouses or in laboratories, to serve as a guide for production.



Product Features ^{Note1}

- Handheld and portable design, easy-to-operate with one hand, suitable for tests on production line
- Auto shutdown for energy saving
- One-button calibration, simple and efficient
- Components and parts are supplied by global well-known manufacturers, which guarantee stable performance of the instrument
- Protective cover for sampling probe to ensure the safety of the operator
- Embedded gas sensors for accurate analysis of the gas contents inside flexible or rigid packages
- Embedded pressure sensor for accurate determination of the vacuum degree inside the package
- CO₂ sensor uses NDIR technology, patented solid state LED, detector and gold-plated optic components
- The sensors are supplied by globally well-known manufacturers, which have ultra-high precision, low fault rate and long service life
- Industrial grade touch screen, one button operation, intuitive operating interface, remote upgrade & maintenance
- Chinese and English language operating system can meet different requirements of the users
- Automatic data storage, power failure memory to prevent data loss
- Up to 1200 test results can be stored
- Equipped with wireless micro-printer for convenient data printing (optional)
- Equipped with standard USB ports and professional software for convenient PC connection and data transfer (optional)

Test Principle

The gas inside the test package is brought to the gas sensor by the air pump. The instrument analyzes the volume of oxygen and carbon dioxide (optional) contained in the sample gas by calculating the electrical signals generated by the gas sensor. When the preset condition is met, the test is completed and the system records the oxygen and carbon dioxide (optional) concentration.

Applications^{Note1}

Basic Applications	Packaging Bags	Test the volume of O ₂ and CO ₂ (optional) in headspace of non-vacuum sealed packaging bags of coffee, cheese, milk tea, milk powder, bread, bean powder, instant food and drugs, etc.
	Packaging Containers	Test the volume of O ₂ and CO ₂ (optional) in headspace of packaging containers of coffee, milk powder, food, cheese, can, Tetra Pak and beverage, etc.
Extended Applications	Ampoule Bottles	Test the volume of O ₂ and CO ₂ (optional) in headspace of ampoule bottles

Technical Specifications^{Note2}

Specifications	C650M	
Testable Gases	O ₂ (Standard)	CO ₂ (optional)
Test Principle	Electrochemistry	Infrared Absorption
Sensor Service Life	2 Years (in air)	>15 Years
Test Range	0 ~ 100%	0 ~ 100%
Resolution	0.01%	0.01%
Test Accuracy	±0.2%	± (0.03% + displayed value * 5%)
Sampling Volume	<2 mL (Standard Mode)	15 mL (Standard Mode)
Instrument Dimension	220mm (L) × 110mm(W) × 70mm(H)	
Power Supply	220VAC±10% 50Hz / 120VAC±10% 60Hz	
Net Weight	0.6 kg	

Configurations^{Note2}

Standard Configurations	Instrument, Sampling Probe, Filter, Seal Gasket
Optional Parts	Professional Software, Micro Printer, B2227 Test Frame for Headspace Gas Analyzer, B2226 Underwater Sampling Set, CO ₂ Sensor

Note 1: The parameters in the table are measured by professional operator in Labthink laboratory according to relative requirements for laboratory standard conditions.

Note 2: The described product features, test standards and configurations should be in line with Technical Specifications.

Note 3: The picture in this brochure has included B2227 Test Frame for Headspace Gas Analyzer.

Please Note: Labthink is always dedicated to the innovation and improvement of product performance and function. Therefore, technical specifications are subject to change without further notice. Please visit our website at www.labthink.com for the latest updates. Labthink reserves the rights of final interpretation and revision.