

Aluminized film Thickness Tester GH-E



Introduction

The aluminized film thickness gauge GH-E is a precision device developed and manufactured by the GBPI R&D team based on GB/T 15717 and market demand. It is suitable for testing the resistance, uniformity and thickness of various vacuum aluminized films, aluminized papers and other conductive material coatings.

Test Principle

This instrument measures the resistance value of the metal coating of the sample with specified length and width according to Ohm's law, and expresses the thickness of the metal coating with sheet resistance or directly calculates its thickness.

Standard

GB/T 15717

Specification

| Item | Technical Parameters |
|-----------------------------------|----------------------|
| Thickness test range | 50~1000 Å (Åmy) |
| Square resistance test accuracy | 0.1~29.999 Ω |
| Square resistance test resolution | 0.001 Ω |
| Measurement accuracy | ±5 %Fs |
| Indication variability | <0.1% |
| Sample effective size | 300 mm×100 mm |



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|-------------------------|--|
| | |
| Fixture accuracy | 0.1mm |
| Product size | 300 mm×300 mm×150 mm |
| Test coating metal type | Aluminum, copper, nickel, silver, etc. |

Features

Mechatronics

Mechatronics design, the mechanical part is used to place the sample and measure the resistance, mainly composed of two parts: the operating table and the test fixture; the electrical part is mainly equipped with a microcontroller unit MCU, a full touch LCD screen and a printer. Under the control of the microcomputer, data acquisition, processing and storage are carried out, and the full touch LCD screen is used for human-computer interaction (such as parameter determination, measurement display, and motion control). The experimental results can be printed out through a micro printer; the advanced circuit design effectively ensures the accuracy and stability of the measured data.

Technical advancement

The single-chip microcomputer performs information sensing, data processing and motion control, and has the function of automatically reporting communication abnormalities; microcomputer control, fast processing speed; precise control, safe and reliable, and intelligent operation; high-precision contact resistance measurement, test accuracy, and thus high thickness accuracy; the number of tests can be set according to actual needs to directly obtain the measurement results.

True color full touch, real-time data display

The data acquisition system of the instrument is connected to the microcomputer, and the test results are displayed on the color touch screen, showing the resistance value (maximum, minimum, average), thickness value (maximum, minimum, average) and uniformity in real time. Friendly human-machine interface allows users to quickly and intuitively view test data and results; the LCD screen displays the thickness value (maximum, minimum, average) and resistance value (maximum, minimum, average) of the test in real time.

Resistance calibration

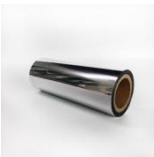

The instrument automatically completes the calibration work through direct calibration with standard resistance value. The calibration operation is simple and convenient.

Printing system



Equipped with a micro printer, it has low noise and clear printing, and can quickly print the block resistance value (maximum, minimum, average), thickness value (maximum, minimum, average), and uniformity.

Application

| | | |
|---|------------------|---|
|  | Aluminum film | Suitable for measuring resistance, uniformity and thickness of various aluminum-plated films. |
|  | Aluminized paper | Applicable to the resistance value, uniformity and thickness of aluminum-plated paper and other conductive material coatings. |

Factory configuration

| | |
|------------------------|--|
| Standard configuration | Power cord, 6 calibration resistors (0 ohm, 0.5 ohm, 1.5 ohm, 10 ohm, 27 ohm, 4.7 ohm) |
| User-provided | Power supply, 3-hole socket, ground wire |

Note: GBPI has always been committed to the innovation and improvement of product performance and function. For this reason, product technical specifications and appearance will also be changed accordingly. The above situation will not be notified. GBPI reserves the right of modification and final interpretation.





Service Commitment

- ◆ Free packaging inspection technical support.
- ◆ One-year warranty for instrument, free software upgrade service, and lifetime free technical support.
- ◆ Free to the factory to train the operation of the instrument, qualified people issued graduation certificates, free accommodation and food.
- ◆ Instrument “trade-in” policy and provision of backup instruments in case of failure.
- ◆ There is a testing center (CNAS L8185) to provide incoming sample testing and sample data comparison services.
- ◆ Set up a Reference Standards Development Center to provide calibration services.

Company Introduction

Guangzhou Biaoji Packaging Equipment Co., Ltd. was established in 2002 and located in Guangzhou Economic Development Zone. It is a company integrating R&D, production and sales of packaging testing instruments, packaging equipment, modified atmosphere preservation equipment and other products, as well as providing third-party testing and standard material proficiency testing. It is committed to providing comprehensive, professional and high-quality products and technical services for packaging, food, medicine, testing and other industries.

Write industry standards with quality, and become the leader and leader in the field of global packaging testing. The 80,000-mile journey is sailing, and GBPI will escort you!



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