

Digital Automatic Polarimeter

JH-P400 Digital Automatic Polarimeter is an instrument for measuring the optical rotation of a substance. The concentration, content and purity of substances can be analyzed and determined by the determination of the rotation degree. It is widely used in sugar, pharmaceutical, petroleum, food, chemical and other industrial departments and related universities and scientific research units. Our factory is a professional manufacturer of polarimeters in China.

1. Digital Automatic Polarimeter Introduction

Innovation:

- 1: LED cold light source replaces traditional sodium light and tungsten halogen lamps;
- 2: Can be used to measure optical rotation, specific rotation, concentration, and sugar content;
- 3: Built-in Peltier temperature control to improve accuracy and stability.
- 4: Automatic calibration function.
- 5: Equipped with standard polarimeter;
- 6: There is user management, which meets the audit trail and complies with the 2015 edition of the Pharmacopoeia.

2. Digital Automatic Polarimeter Parameter

Model: JH-P400

Product name: Digital Automatic Polarimeter

Measurement mode: optical rotation, specific rotation, concentration, sugar content

Automatic calibration: yes

Measuring range: Optical rotation $\pm 89.99^\circ$ Brix $\pm 259^\circ$ Z

measurement accuracy:

$\pm 0.01^\circ$ (when $-45^\circ \leq \text{optical rotation} \leq +45^\circ$)

$\pm 0.02^\circ$ (when optical rotation $< -45^\circ$ or optical rotation $> +45^\circ$)

Minimum reading: 0.001° (optical rotation)

Repeatability: (standard deviation s) 0.002° (optical rotation)

Working wavelength: 589.3nm

The lowest transmittance of measurable samples: 0.1%

Light source: LED cold light source + high-precision interference filter

Temperature control method: Built-in Peltier

Temperature control range: 15°C - 45°C (Peltier)

Output mode: USB, RS232

Data storage: 1000 groups

Display mode: 7 inch TFT true color touch screen

Test tube: 200mm, 100mm common type, 100mm temperature control type

Power source: $220\text{V} \pm 22\text{V}$, $50\text{Hz} \pm 1\text{Hz}$, 250W

Net weight of the instrument: 24kg

3. Digital Automatic Polarimeter Feature

- 1: The LED light source with a service life of more than 100,000 hours replaces the traditional sodium lamp and tungsten halogen lamp, which makes up for the short-lived and easy-to-damage shortcomings;
- 2: In order to ensure the measurement accuracy of the results, the temperature control technology of the instrument adopts built-in Peltier instead of the traditional flow cell;
- 3: The measurement range is upgraded to $\pm 89^\circ$ (optical rotation), which improves the limitation of the measurement sample and improves the selectability of the measurement sample;
- 4: The control adopts systematic, highly integrated, fully automated, convenient and easy-to-operate.

4. Fields of use

1. Digital Automatic Polarimeter is widely used in medicine, food, organic chemical industry and other fields.
2. Agriculture: analysis of ingredients such as agricultural antibiotics, agricultural hormones, microbial pesticides and starch content of agricultural products.
3. Medicine: analysis of antibiotics, vitamins, glucose and other drugs, pharmacological study of Chinese herbal medicine.
4. Food: sugar, monosodium glutamate, soy sauce and other production process control and finished product inspection, food sugar content determination.
5. Petroleum: analysis of mineral oil, monitoring of petroleum fermentation process.
6. Fragrance: analysis of essential oils.
7. Health services: analysis of clinical diabetes in hospitals

5. Product Details

Shanghai Jiahang Digital Automatic Polarimeter is an instrument for measuring the rotation of substances. The concentration, content and purity of the substance can be determined by spectrophotometry. Shanghai Jiahang Automatic Polarimeter has built-in Peltier precise temperature control system, which can meet users' requirements for testing at constant temperature. The built-in automatic calibration program is optional, and the standard automatic calibration tool can be automatically calibrated from -45 degrees to +45 degrees, which fully meets the user's demand for controllable measurement accuracy in daily operation. The multi-level authority management of Shanghai Jiahang automatic polarimeter can meet the audit tracking.

Jiahang's products have been exported to more than 50 countries including the United States, Germany, France, Malaysia, Vietnam, India, Italy, etc. We are committed to participating in Arablab, PICCTON, Analytica Russia, Lab Africa, Analytica Germany, Analytica Latin America and other exhibitions. Open up different markets, and enjoy a good reputation with reliable quality, reasonable prices and good service to win a large market share.

6. Product Qualification:

Jiahang Digital Automatic Polarimeter has obtained CE certification, TART certification, ISO quality management system certification, more than 10 software copyrights and multiple patents to ensure that each instrument has stable performance and excellent quality.

7. Deliver,Shipping And Serving:

We have a top R&D team returned from Europe and America, cooperate with our superb manufacturing team, professional sales team and dedicated service team, working together to provide customers with high-tech, high-quality products and efficient, convenient, Comprehensive pre-sales and after-sales professional services.

8. FAQ

How many years have your company made Digital Automatic Polarimeter ?

22 years of scientific instrument manufacturer, laboratory solution provider!

Which certificate do you have for your products?

Jiahang has obtained CE certification, TART certification, ISO quality management system certification, more than 10 software copyrights and multiple patents to ensure that each instrument has stable performance and excellent quality.

Will you will attend the fair to show your products?

Yes, Every year we will participate in some internationally renowned exhibitions to launch our new products, such as Arablab、PICCTON、Analytica Russia、Lab Africa、Analytica Germany、Analytica Latin America and so on,we are looking forward to your visit.

How about your company's R&D strength

Possess strong R&D technical capabilities (a R&D team of more than 20 people, with an average degree of doctorate degree, graduated from well-known universities at home and abroad, with an average work experience of 8 years), able to deal with and solve product-related technical problems

If OEM is acceptable?

Provide OEM customization service, product built-in software has autonomy, can customize development settings

Are you a trading company or a manufacturer?

100% manufacturer, no middlemen and distributors make the price difference, the price of the source factory is very advantageous; Jiahang is headquartered in Shanghai, China, has 15 service outlets and 2 production plants in China, and has sales in more than 10 countries overseas proxy.

How about your delivery time?

"Generally, it will take 7 to 15 working days after receiving your advance payment. Depend on the quantity."

Which payment can be acceptable ?

We could accept the payment by L/C, TF, Paypal , Western Union,etc.

Service

We could provide Online instruction ; Real-time support by video-ca or voice-chat.

Any customer who cooperates for the first time promises to provide a production cost price trial opportunity to solve your worries about product quality problems.

Provide official product quality assurance documents that comply with legal benefits to escort you with worry-free after-sales service.