

# Basic Automatic Polarimeter AP-120



## Description

Basic Automatic Polarimeter AP-120 is designed for use in many applications that require measurement of optical rotation and best suited for optical rotation, sugar degree in pharmaceutical, chemical, food and research applications.

Designed with 589.44 nm, 5-inch LCD light source and includes polarimeter tubes of 100 mm and 200 mm, and a spare sodium lamp, with sample transmittance up to 10 %, and 1% range. Better-quality usability with the use of touch screen display. Achieve a high measurement accuracy of up to  $\pm (0.01 \text{ and measuring value} \times 0.05\%) ^\circ\text{C}$ . Automatically prints out Optical rotation, sugar degree. Ideal for measurement of rotation of polarization plane and best suited for optical rotation with accuracy up to  $\pm 0.01^\circ\text{C}$ , and  $\pm 0.002^\circ\text{C}$  total repeatability and glass tubes: 100 and 200 mm, 15mm diameter.

## Technical:

| Model                    | AP-110                                                          | AP-120                                                |
|--------------------------|-----------------------------------------------------------------|-------------------------------------------------------|
| Wavelength               | 589.44 nm                                                       |                                                       |
| Accuracy                 | $\pm(0.01+\text{measuring value} \times 0.05\%) ^\circ\text{C}$ |                                                       |
| Repeatability            | $\pm 0.01^\circ\text{C}$                                        | $\pm 0.002^\circ\text{C}$                             |
| Measurement Range        | $\pm 45^\circ\text{C}$ (Optical rotation)                       | $\pm 45^\circ$ (optical rotation) $\pm 120^\circ$     |
| Measurement Modes        | Optical rotation                                                | Optical rotation, sugar degree                        |
| Source                   | LED                                                             |                                                       |
| Display                  | 5-inch LCD                                                      |                                                       |
| Test Tube                | 100 mm or 200 mm (regular)                                      |                                                       |
| Minimum Indicating Value | $0.002^\circ\text{C}$ (optical rotation)                        | $0.001^\circ\text{C}$ (optical rotation) $0.01^\circ$ |
| Sample Transmittance     | 10%                                                             | 1%                                                    |
| Certifications           | CE                                                              |                                                       |
| Interface                | RS232                                                           |                                                       |
| Dimension                | 730×480×470 mm                                                  |                                                       |
| Weight                   | 33 kg                                                           |                                                       |
| Catalogue No.            | 4600505-04                                                      | 4600510-04                                            |

|                                |                                                 |
|--------------------------------|-------------------------------------------------|
| <b>Shipping:</b>               | 2 - 3 weeks Delivery.                           |
| <b>brix_range:</b>             | -                                               |
| <b>refractive_index_range:</b> | $0.001^\circ\text{C}$ (optical rotation) $0.01$ |
| <b>display:</b>                | 5-inch LCD                                      |
| <b>measurement_range:</b>      | $45^\circ$ (optical rotation) $120$             |
| <b>temperature_range:</b>      | -                                               |
| <b>wavelength:</b>             | 589.44 nm                                       |
| <b>model:</b>                  | AP-120                                          |

## **Iris Analytical Ltd.**

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