

**Finally, a multifunctional automatic polarimeter
at a reasonable price!**



AUTOMATIC POLARIMETER

AP-100

Cat.No.5290

Features:

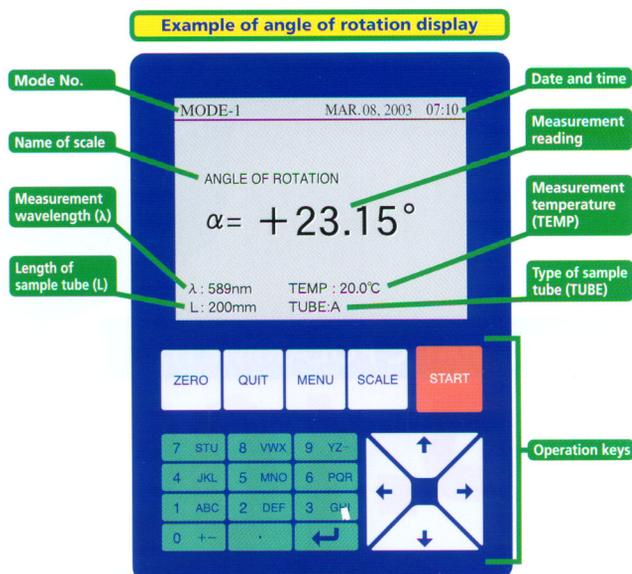
- Compact and space saving
- Selectable measurement readings: Angle of Rotation, International Sugar Scale (2 types), Specific Optical Rotation, Concentration, and Purity
- Automatic measurement and digital display
- Easy operation: Simply place a sample tube in the AP-100 and press START
- Soft Color Display
- Out-of-range measurements are indicated instantly by graphic display
- Manual calibration
- Flash memory stores the 30 most recent measurement readings

Application

- Measures the specific optical rotation of medical agents
- Measures the concentration of optically active substances found in fragrance materials or chemical compositions
- Measures sugar by the international sugar scale and the purity of sugar
- Identifies the attributes of inverted sugar, etc.
- Measures the specific optical rotation or the concentration of optically active substances

Specifications

- Cat. No.** : 5290
- Measurement scales** : Angle of Rotation, International Sugar Scale (without temperature compensation), International Sugar Scale (with automatic temperature compensation)
- Measurement readings** : Angle of Rotation, International Sugar Scale (without temperature compensation), International Sugar Scale (with automatic temperature compensation), Specific Optical Rotation, Concentration, and Purity
- Measurement range** : Angle of Rotation: $-89.99 \sim +89.99^\circ$ International Sugar Scale : $-130.00 \sim +130.00^\circ Z$
- Minimum Indication** : Angle of Rotation: 0.01° International Sugar Scale : $0.01^\circ Z$
- Measurement accuracy** : Angle of Rotation: $\pm 0.01^\circ$ International Sugar Scale : $\pm 0.03^\circ Z$ (Checked by reading a standard quartz plate)
- Temperature correction range**
for International Sugar Scale : $18.0 \sim 30.0^\circ C$
- Temperature accuracy** : $\pm 0.5^\circ C$
- Display panel** : Color LCD with backlight
- Graphic display** : Graphic display indicating the conformity of measurement values for measurements with limit settings.
- History Function** : Flash memory stores the 30 most recent measurement readings for printing and reference.
- Zero setting** : Zero setting can be conducted by pressing the ZERO key when the sampling chamber is empty.
- Manual calibration** : Enables manual calibration by measuring a standard quartz plate.
- Measurement wavelength** : 589nm (D-line)
- Outputs** : (1) DP-63 Digital printer (optional) is used.
(2) RS-232C input/output ports for connecting to a computer system
- Power supply** : AC100V to 240V, 50/60Hz
- Light source** : Halogen lamp
- Accessories** : 100mm, 200mm observation tube (1each)
- Dimensions and weight** : 48.5×28.5×17.5cm, 11.5kg



Option

Digital Printer DP-63

- Cat. No.** : 3118
- Input method** : RS-232C
- Type of printer** : Thermal dot matrix printer
- Printing item** : Angle of rotation, International sugar scale, Specific optical rotation, Concentration, Purity, Length of sample tube, Measurement temperature, Date, Month, Year and Time
- Power supply** : DC8.5V from the AP-100
- Power consumption** : 13VA
- Dimensions and weight** : 17×16×7cm, 580g



* Specifications and design are subject to change without notice.

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