

### 1.2.3 P-1030 Polarimeter

Light source	Sodium lamp (Na), Mercury lamp (Hg)
Polarizer	Glan-Taylor polarizing prism
Faraday cell	Pb glass
Measurement wavelength	589, 577, 546, 435, 365 nm
Light source exchange	Computer control
Maximum cell length	100 mm
Detector	Photomultiplier tube
Printer	Equipped with Centronics parallel interface
Display	Liquid crystal panel
Language	Japanese, English
Temperature measurement	Within cell holder/cell (sample)
Temperature measurement range	0~40°C (Minimum display temperature: 0.1°C)
Measurement method	Optical zero method with symmetric angle oscillation
Measurement Angle range	±90°
Minimum display angle	0.0002°
Response speed	6°/sec.
Integration time	1~100 sec.
Measurement accuracy	±0.002° (±1° or less), 0.2% (more than ±1°)
Measurement repeatability	±0.002°
Data modes	Optical rotation, Specific optical rotation , Concentration, Sugar scale, Brix purity, Optical purity
Data processing	Edit data Statistical calculation: average value, standard deviation coefficient of variation
Other functions	Recognizes light source, Recognizes filter
External terminal	External start, External auto zero
External output	Analog output: ±1V±1%, full scale:1°, 10°, 100°
LC output:	0.5° → 5V±3% : 589 nm (Na)
Dimensions	563(W)×350(D)×210(H)mm
Weight	39.5 kg
Power requirements	100, 115, 200, 220, and 240 VAC ±10%, 50/60 Hz, 530 W