

P-4300

Polarimeter



Specifications

[Hardware]

Light source:	Sodium lamp, Mercury lamp Option: LED, Tungsten lamp
Light source exchange mirror:	Standard
Polarizer:	Glan-Taylor
Measurement wavelength:	589, 546, 436, 405, 365 nm Option: 633 nm
Filter changer:	Standard
Detector:	PMT
Max. path length:	100 mm
Measurement angle range:	-90° to 90°
Measurement accuracy:	$\pm 0.002^\circ$ ($\leq 1^\circ$) $\pm 0.2\%$ ($> 1^\circ$)
Measurement repeatability:	$\pm 0.002^\circ$
Min. display angle:	0.0001°
Response speed:	6°/sec
Data integration time (D.I.T.):	1 to 100 sec
Sample temperature control:	Standard (Heating/cooling by peltier effect)
Temperature measurement point:	Within cell holder/cell
Temperature control range:	15 to 40 °C
Temperature control accuracy:	± 0.2 °C (when using cell holder sensor)
Temperature monitoring accuracy:	± 0.1 °C
Sample compartment exhaust port:	Standard
Connection of exhaust duct:	Option
USB port:	2 ports (USB 3.0 Type-A)
Dimension:	550 (W) × 350 (D) × 210 (H) mm
Weight:	25.0 kg
Power requirements:	AC 100 to 240 V 50/60 Hz 250 VA

[Software]

	Non-CFR version	CFR version
Display panel:	Color LCD, 7 inch (1024 × 600 pixels) Touch key pad	
Applicable language:	Japanese or English	
Measurement mode:	Optical rotation, specific rotation, concentration, sugar scale, Brix purity, optical purity	
Correction function:	Optical rotation correction (using calibrated quartz control plate or line source), blank correction, temperature correction	
Data processing:	Statistical calculation: average, standard deviation	
Automatic sample measurement:	When achieving the temperature of the control sensor to the target temperature, when closing the lid of the sample compartment	
Daily check:	Light source energy, accuracy of optical rotation	
Validation:	Applicable for JP, USP, EP, and inspection of instrument performance	
Self diagnosis:	Confirmation of instrument condition (light source, temperature sensor etc.)	
Display of date and time:	Always show	
Printer:	Windows compatible printer (A4 size)	
Multi-level user authority:	Available Password setting Access level: 2 Workgroup privileges: N/A	Available Password setting Access level: 4 Workgroup privileges: 3
Audit trail:	System, and App logs	System, App, External event, and Windows event logs
Electronic signature:	Not available	Available
Data save	Save destination: Built-in SSD, USB data storage device (USB flash drive etc) Format: Binary	Built-in SSD Binary
Data export	Available Exports a file in text or csv formats to the specified folder.	LIMS export function (standard) Exports a file in text format based on measurement data (when an approval signature is assigned to a set of data) and audit trail data (when exiting the software) to the specified folder.

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