

P-4100

Polarimeter



Specifications

[Hardware]

Light source:	LED
	Option: -
Light source exchange mirror:	Not available
Polarizer:	Dichrome
Measurement wavelength:	589 nm
	Option: -
Filter changer:	Not available
Detector:	PMT
Max. path length:	100 mm
Measurement angle range:	-90° to 90°
Measurement accuracy:	$\pm 0.01^\circ (\leq 1^\circ)$ $\pm 1\% (> 1^\circ)$
Measurement repeatability:	$\pm 0.01^\circ$
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:	$\pm 0.2^\circ\text{C}$ (when using cell holder sensor)
Temperature monitoring accuracy:	$\pm 0.1^\circ\text{C}$
Sample compartment exhaust port:	Not available
Connection of exhaust duct:	Not available
USB port:	2 ports (USB 3.0 Type-A)
Dimension:	435 (W) × 330 (D) × 210 (H) mm
Weight:	18.5 kg
Power requirements:	AC 100 to 240 V 50/60 Hz 110 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), blank correction, temperature correctionv	
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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