TECHNICAL DATA - POLARIMETERS

	P8000	P8100	P8000-T/-TF	P8100-T/-TF
SCALES	Optical rotation [°] Int. sugar scale [°Z] Concentration [g/100 ml] Spec. rotation User-defined		Optical rotation [°] Int. sugar scale [°Z] Concentration [g/100 ml] Spec. rotation User-defined	
MEASUREMENT RANGES	±90° ±259 °Z		±90° ±259 °Z	
MEASUREMENT ACCURACY	±0.003° ±0.01 °Z	±0.002° ±0.01 °Z	±0.003° ±0.01 °Z	±0.002° ±0.01 °Z
resolution	0.001° 0.01 °Z		0.001° 0.01 °Z	
MEASUREMENT PERIOD ±90°	Approx. 1 s		Approx. 1 s	
LIGHT SOURCE	1 LED with filter		1 LED with filter	
WAVELENGTH	589 nm		589 nm	
SAMPLE PERMEABILITY	> 0.1 % (OD3)		> 0.1% (OD3)	
MAX. TUBE LENGTH	220 mm		220 mm	
TEMPERATURE MEASUREMENT	With temperature probe PRT-E or PRT-T		With temperature probe PRT-E or PRT-T	
TEMPERATURE MEASUREMENT RANGE	0-99.9 °C		0-99.9 °C	
TEMPERATURE MEASUREMENT RESOLUTION	0.1 °C		0.1 ℃	
TEMPERATURE MEASUREMENT ACCURACY	±0.2 °C		±0.2 °C	
TEMPERATURE CONTROL	Can be retrofitted (requires circulating thermostat PT31, sample chamber bushing P8020 and temperature-controlled measurement tube PRG-100- ET)		With circulating thermostat PT31 (requires temperature-controlled measurement tube such as PRG-100-ET)	
TEMPERATURE CONTROL RANGE			With PT31 8°-35° (Standard) / With PT80 5°-80°	
TEMPERATURE CONTROL ACCURACY			±0.2 °C	
METHODS	A practically unlimited number of methods can be set		methods can be set	
ADJUSTMENT	Automatic (menu-driven)			
HOUSING	Steel, powder-coated			
CONTROL	5,7" touch-screen, 640 x 480 pixels		x 480 pixels	
INTERFACES			1x USB, 1x RS-232, 1x Ethernet	
OPERATING VOLTAGE			110–250 V, 50/60 Hz	
POWER CONSUMPTION (MEASUREMENT OPERATION)	35	5 W	35	W
POWER CONSUMPTION (MAX.)	50) W	50	W
DIMENSIONS (W X H X D)	645 mm x 200 mm x 360 mm			
WEIGHT	28 kg			

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Optical rotation [°] Optical rotation [°] Int. sugar scale [°Z] Optical rotation [°] Concentration [g/100 ml] Spec. rotation User-defined ±90° ±259 °Z ±90° ±0.01° ±0.01° ±0.01°Z ±0.01° 0.01°Z 0.01° Approx. 1 s Approx. 1 s 1 LED with filter 1 LED with filter 589 nm 589 nm > 0.1 % (OD3) > 0.1 % (OD3) 220 mm With temperature probe PRT-E or PRT-T 0-99.9 °C 0.1 °C ±0.2 °C ±0.2 °C
#259 °Z #0.003° #0.01° °Z #0.01
±0.01 °Z ±0.01 °Z ±0.01 °Z ±0.01 °Z 0.001 °
0.01 °Z Approx. 1 s 1 LED with filter 589 nm > 0.1% (OD3) 220 mm With measurement tube PRG-100-EPT 0.01°C Approx. 1 s 1 LED with filter 589 nm > 0.1% (OD3) 220 mm With temperature probe PRT-E or PRT-T
1 LED with filter 1 LED with filter 589 nm 589 nm > 0.1% (OD3) > 0.1% (OD3) 220 mm 220 mm With measurement tube PRG-100-EPT With temperature probe PRT-E or PRT-T 0-99.9 °C 0-99.9 °C 0.1 °C 0.1 °C
589 nm 589 nm > 0.1% (OD3) > 0.1% (OD3) 220 mm 220 mm With measurement tube PRG-100-EPT With temperature probe PRT-E or PRT-T 0-99.9 °C 0-99.9 °C 0.1 °C 0.1 °C
> 0.1% (OD3) 220 mm 220 mm With measurement tube PRG-100-EPT 0-99.9 °C 0.1 °C 0.1 °C > 0.1% (OD3) 220 mm With temperature probe PRT-E or PRT-T 0-99.9 °C 0.1 °C
220 mm With measurement tube PRG-100-EPT 0-99.9 °C 0.1 °C 220 mm With temperature probe PRT-E or PRT-T 0-99.9 °C 0.1 °C
With measurement tube PRG-100-EPT 0-99.9 °C 0.1 °C With temperature probe PRT-E or PRT-T 0-99.9 °C 0.1 °C
0–99.9 °C 0–99.9 °C 0.1 °C
0.1 °C 0.1 °C
±0.2 °C ±0.2 °C
With measurement tube PRG-100-EPT with 3 integrated Peltier elements Can be retrofitted (requires circulating thermostat PT31,
sample chamber bushing P8020 and temperature-controlled measurement tube PRG-100-ET)
±0.2 °C
N/a
Automatic (menu-driven)
Steel, powder-coated
3,5" touch-screen, 320 x 240 pixels
1x RS-232
110-250 V, 50/60 Hz
65 W 30 W
85 W 40 W
645 mm x 200 mm x 360 mm
28 kg

	P1000-LED	
SCALE	Optical rotation [°]	
MEASUREMENT RANGE	2 graduated circles (0–180°)	
SCALE DIVISION	1°	
READING ACCURACY	0.05° (with nonius)	
LIGHT SOURCE	1 LED with filter	
WAVELENGTH	589 nm	
MAX. TUBE LENGTH	220 mm	
ADJUSTMENT	Manual adjustment on the scale	
HOUSING	Cast aluminium	
OPERATING VOLTAGE	110–250 V, 50/60 Hz	
POWER CONSUMPTION (MEASUREMENT OPERATION)	15 W	
POWER CONSUMPTION (MAX.)	15 W	
DIMENSIONS (W X H X D)	140 mm x 330 mm x 500 mm	
WEIGHT	4.3 kg	



