## **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 ℃		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			
ADJUSTMENT	Automatic (menu-driven)			
HOUSING	Steel, powder-coated			
CONTROL	5,7" touch-screen, 640 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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P8000-P	P8100-P	P3000		
Int. sugar Concentratic Spec. 1	otation [°] scale [°Z] on [g/100 ml] otation lefined	Optical rotation [°] Int. sugar scale [°Z]		
±90 ±25		±90° ±259 °Z		
±0.003° ±0.01 °Z	±0.002° ±0.01°Z ±0.01° ±0.01°Z			
0.001° 0.01°Z		0.01° 0.01 °Z		
Аррго	ox. 1 s	Approx. 1 s		
1 LED v	vith filter	1 LED with filter		
589	nm	589 nm		
> 0.19	6 (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		
±0.2 °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		
	-40 °C 	temperature-controlled measurement tube PRG-100-ET)		
		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	



