

TECHNICAL DATA - POLARIMETERS

	P8000	P8100	P8000-T/-T80/-TF	P8100-T/-T80/-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	
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°	Ca. 1 s		Ca. 1 s	
LIGHT SOURCE	1 LED mit Filter		1 LED mit 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 oder PRT-T		With temperature probe PRT-E oder PRT-T	
TEMPERATURE MEASUREMENT RANGE	0–99.9 °C		0–99.9 °C	
TEMPERATURE MEASUREMENT RESOLUTION	0.1 °C		0.1 °C	
TEMPERATURE MEASUREMENT ACCURACY	±0.2 °C		±0.2 °C	
TEMPERATURE CONTROL	Can be retrofitted (requires circulating thermostat PT31 or PT80, sample chamber bushing P8020 and temperature-controlled measurement tube PRG-100- ET)		With circulating thermostat PT31 (P8000-T) or with circulating thermostat PT80 (P8000-T80) (requires temperature-controlled measurement tube such as PRG-100-ET)	
TEMPERATURE CONTROL RANGE			PT31=8°–35° C (standard), PT80=5°–80° C	
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 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			

P8000-P	P8100-P	P3000	P1000-LED
Optical rotation [°] Int. sugar scale [°Z] Concentration [g/100 ml] Spec. rotation User-defined		Optical rotation [°] Int. sugar scale [°Z]	Optical rotation [°]
±90° ±259 °Z		±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	
Ca. 1 s		Ca. 1 s	
1 LED mit Filter		1 LED mit 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	
±0.2 °C		±0.2 °C	
With measurement tube PRG-100-EPT with 3 integrated Peltier elements		Can be retrofitted requires circulating thermostat PT31 or PT80, sample chamber bushing P8020 and temperature-controlled measurement tube PRG-100-ET	
15–40 °C			
±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	
			SCALE
			MEASUREMENT RANGE
			SCALE DIVISION
			READING ACCURACY
			LIGHT SOURCE
			WAVELENGTH
			MAX. TUBE LENGTH
			ADJUSTMENT
			HOUSING
			OPERATING VOLTAGE
			POWER CONSUMPTION (MEASUREMENT OPERATION)
			POWER CONSUMPTION (MAX.)
			DIMENSIONS (W X H X D)
			WEIGHT