OVERVIEW: POLARIMETERS, ACCESSORIES AND CONSUMABLES

ORDER NUMBER	POLARIMETERS
P8000	Digital polarimeter without temperature control and with a measurement accuracy of up to $\pm 0.003^{\circ}$
P8100	Digital polarimeter without temperature control and with a measurement accuracy of up to ±0.002°
P8000-T	Digital polarimeter with circulating thermostat (PT31) temperature control, measurement accuracy of up to $\pm 0.003^{\circ}$
P8100-T	Digital polarimeter with circulating thermostat (PT31) temperature control, measurement accuracy of up to $\pm 0.002^\circ$
P8000-T80	Digital polarimeter with circulating thermostat (PT80) temperature control, measurement accuracy of up to $\pm 0.003^{\circ}$
P8100-T80	Digital polarimeter with circulating thermostat (PT80) temperature control, measurement accuracy of up to $\pm 0.002^{\circ}$
P8000-TF	Digital polarimeter with circulating thermostat temp. control, flow-through function, measurement accuracy of up to $\pm 0.003^{\circ}$
P8100-TF	Digital polarimeter with circulating thermostat temp. control, flow-through function, measurement accuracy of up to $\pm 0.002^{\circ}$
P8000-P	Digital polarimeter with Peltier temperature control and a measurement accuracy of up to $\pm 0.003^\circ$
P8100-P	Digital polarimeter with Peltier temperature control and a measurement accuracy of up to $\pm 0.002^\circ$
P3000	Digital polarimeter without temperature control and with a measurement accuracy of up to $\pm 0.01^\circ$
P1000-LED	Analogue polarimeter with a reading accuracy of up to 0.05°

ORDER NUMBER	GLASS MEASUREMENT TUBES
PRG-100	Glass tube, 100 mm, 12 ml
PRG-200	Glass tube, 200 mm, 22 ml
PRG-50-E	Glass tube with filling funnel, 50 mm, 3 ml
PRG-100-E	Glass tube with filling funnel, 100 mm, 6 ml
PRG-200-E	Glass tube with filling funnel, 200 mm, 12 ml
PRG-100-ET	Glass tube with stainless steel jacket and filling funnel, temperature-controlled, 100 mm, < 4 ml
PRG-200-ET	Glass tube with stainless steel jacket and filling funnel, temperature-controlled, 200 mm, < 8 ml
PRG-100-EPT	Glass tube with stainless steel jacket, inlet & outlet, integrat. Peltier temp. control and temperature measurement, 100 mm, 8 ml
PRG-50-M	Micro glass tube, 50 mm, 0.55 ml
PRG-100-M	Micro glass tube, 100 mm, 1.1 ml
PRG-50-MT	Micro glass tube, temperature-controlled, 50 mm, 0.4 ml
PRG-100-D	Flow-through glass tube, 100 mm, 8.7 ml
PRG-100-DT	Flow-through micro glass tube, temperature-controlled, 100 mm, 0.7 ml

ORDER NUMBER

STAINLESS STEEL MEASUREMENT TUBES

PRM-100-ET	Stainless steel tube with filling funnel, temperature-controlled, 100 mm, 12 ml
PRM-100-D	Stainless steel flow-through tube with filling funnel and overflow pipe, 100 mm, 12 ml
PRM-200-D	Stainless steel flow-through tube with filling funnel and overflow pipe, 200 mm, 17 ml
PRM-100-DT	Stainless steel flow-through tube with filling funnel and overflow pipe, temperature-controlled, 100 mm, 12 ml
PRM-200-DT	Stainless steel flow-through tube with filling funnel and overflow pipe, temperature-controlled, 200 mm, 17 ml
PRM-100-DTT	Stainless steel flow-through tube with filling funnel and overflow pipe, temperature-controlled, with temperature probe, 100 mm, 12 ml
PRM-200-DTT	Stainless steel flow-through tube with filling funnel and overflow pipe, temperature-controlled, with temperature probe, 200 mm, 17 ml
PRM-50-SD	Stainless steel flow-through tube with hose connections, 50 mm, 10 ml
PRM-100-SD	Stainless steel flow-through tube with hose connections, 100 mm, 12 ml
PRM-200-SD	Stainless steel flow-through tube with hose connections, 200 mm, 17 ml
PRM-10-SDM	Stainless steel flow-through micro tube with hose connections, 10 mm, 1.5 ml
PRM-50-SDM	Stainless steel flow-through micro tube with hose connections, 50 mm, 1 ml
PRM-100-SDM	Stainless steel flow-through micro tube with hose connections, 100 mm, 0.5 ml
PRM-100-SDT	Stainless steel flow-through tube with hose connections, temperature-controlled, 100 mm, 12 ml
PRM-200-SDT	Stainless steel flow-through tube with hose connections, temperature-controlled, 200 mm, 17 ml
PRM-25-SDTM	Stainless steel flow-through micro tube with hose connections, temperature-controlled, 25 mm, 0.5 ml
PRM-50-SDTM	Stainless steel flow-through micro tube with hose connections, temperature-controlled, 50 mm, 1 ml
PRM-100-SDTM	Stainless steel flow-through micro tube with Luer connections, temperature-controlled, 100 mm, 0.5 ml
PRM-200-SDTM	Stainless steel flow-through micro tube with Luer connections, temperature-controlled, 200 mm, 2.5 ml
PRM-100-SDTT	Stainless steel flow-through tube with hose connections, temperature-controlled, with temperature probe, 100 mm, 12 ml
PRM-200-SDTT	Stainless steel flow-through tube with hose connections, temperature-controlled, with temperature probe, 200 mm, 17 ml

E = with filling funnel; **ET** = with filling funnel, temperature-controlled

EPT = with integrated Peltier temperature control and temperature measurement

M =micro tube; MT = micro tube, temperature-controlled

D = flow-through tube with filling funnel

DT = flow-through tube with filling funnel, temperature-controlled DT = flow-through tube with filling funnel, temperature-controlled with temperature probe

SD = flow-through tube with hose connections

SDT = flow-through tube with hose connections, temperature-controlled

SDTM = flow-through micro tube with hose connections, temperature-controlled

SDTT = flow-through tube with hose connections, temperature-controlled with temperature probe

SDM = flow-through micro tube with hose connections

ORDER NUMBER	QUARTZ CONTROL PLATES
PQE+17	Factory-certified economy quartz control plate for P3000 (to a limited extent P8000 series); accuracy: ±0.005°, angle of rotation: +17° (±1°), +50 °Z (±1 °Z) at 20 °C
PQE+34	Factory-certified economy quartz control plate for P3000 (to a limited extent P8000 series); accuracy: ±0.005°, angle of rotation: +34° (±1°), +99 °Z (±1 °Z) at 20 °C
PQE-17	Factory-certified economy quartz control plate for P3000 (to a limited extent P8000 series); accuracy: ±0.005°, angle of rotation: –17° (±1°), –50 °Z (±1 °Z) at 20 °C
PQE-34	Factory-certified economy quartz control plate for P3000 (to a limited extent P8000 series); accuracy: ±0.005°, angle of rotation: -34° (±1°), -99 °Z (±1 °Z) at 20 °C
PQP+17	PTB-certified premium quartz control plate for P8000 series and P3000; accuracy: ±0.001°, angle of rotation: +17° (±1°), +50 °Z (±1 °Z) at 20 °C
PQP+34	PTB-certified premium quartz control plate for P8000 series and P3000; accuracy: ±0.001°, angle of rotation: +34° (±1°), +99 °Z (±1 °Z) at 20 °C
PQP-17	PTB-certified premium quartz control plate for P8000 series and P3000; accuracy: ±0.001°, angle of rotation: –17° (±1°), –50 °Z (±1 °Z) at 20 °C

ORDER NUMBER	ACCESSORIES AND CONSUMABLES
PT80	Circulating thermostat; adjustment range: 5–80 °C; interface: RS-232; power supply: 100–240 V, 50/60 Hz, 60 W; dimensions (w x h x d): 170 mm x 225 mm x 244 mm
PT31	Circulating thermostat; adjustment range: 8–35 °C; interface: RS-232; power supply: 100–240 V, 50/60 Hz, 60 W; dimensions (w x h x d): 108 mm x 199 mm x 145 mm
PT31-DECKEL	Cover for circulating thermostat PT31
PT31-NETZTEIL	Mains adaptor for circulating thermostat PT31 with EU connector
P8001	Set for the connection of circulating thermostat PT31 to polarimeter P8000-T/-TF, consisting of: 2 silicone tubes (300 mm); 2 tube connections, straight
P8002	Set for the connection of measurement tubes (old version), consisting of: 2 silicone tubes (250 mm); 2 tube connections, straight
P8003	Set for the connection of measurement tubes (new version), consisting of: 2 silicone tubes (100 mm); 2 tube connections, angled
PRT-E	Temperature probe made of stainless steel with sensor Pt100
PRT-T	Temperature probe made of stainless steel, PTFE-coated, with sensor Pt100
PRT-P	Adaptor plug for the connection of temperature probe PRT-E/PRT-T to polarimeter P8000-P/P8100-P
D\$7009	Luer syringe, 2 ml, 10 pieces
DS7010	Luer syringe, 10 ml, 10 pieces
DS7019	PE waste container with lid, 600 ml
DS7060	Drying unit with 3/2-way valve
DS7070	Peristaltic pump
D\$7071	Tube set for peristaltic pump DS7070, consisting of: TPE pump tube (105 mm), 5 pieces; PTFE tube connection UNF, 2 pieces
D\$7072	Tube set for peristaltic pump DS7070, consisting of: TPE pump tube (105 mm), 5 pieces; PTFE tube connection (olive), 2 pieces
AS80	Autosampler for 18 or 36 samples, including: sample plate 18x 50 ml (42 mm x 43 mm) or 36x 30 ml (28 mm x 65 mm) set polypropylene vials (50 ml) or glass vials (30 ml); other vials on request; PTFE connecting tube
AS90	Autosampler for 53 or 89 samples, including: sample plate 53x 16 ml (22 mm x 55 mm) or 89x 6 ml (16 mm x 55 mm) set polypropylene vials (16 or 6 ml); other vials on request; PTFE connecting tube
AS80-T18	Sample plate 18x 50 ml (42 mm x 43 mm)
AS80-T36	Sample plate 36x 30 ml (28 mm x 65 mm)
AS90-T53	Sample plate 53x 16 ml (22 mm x 55 mm)
AS90-T89	Sample plate 89x 6 ml (16 mm x 55 mm)
BC876	Barcode scanner
CBM910	Drucker sowie umfangreiches Drucker-Zubehör



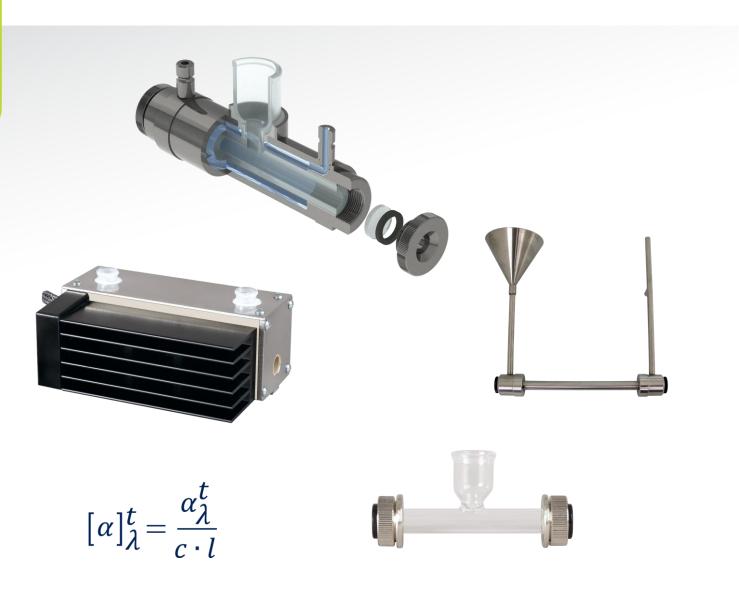




POLARIMETER | MEASUREMENT TUBE

MEASUREMENT TUBES FOR A COMFORTABLE SAMPLE SUPPLY

Version 2.1 February 2023



kruess.com



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POLARIMETER OVERVIEW



Polarimeter P8000 and P8100

Recommendable devices for all basic applications without sample temperature control. Instead of temperature control, temperature compensation according to ICUMSA can be used.

(A.KRÜSS-Website)



High-precision measurements through temperature control without an additional device and exact temperature control via Peltier technology.

(A.KRÜSS-Website)



Polarimeter P8000-T and P8100-T

Polarimeter P8000-P and P8100-P

These Polarimeter models enable in connection with temperature-controlled measurement tubes and a circulating thermostat (PT31/PT80) a sample temperature control between 8 °C up to 40 °C at PT31 and 5 °C up to 80 °C at PT80.

(A.KRÜSS-Website)



Polarimeter P3000

This device is built for standard applications as an economic solution for which a measurement accuracy of $\pm 0.01^{\circ}$ is sufficient and a temperature control can be omitted.

(A.KRÜSS-Website)



Polarimeter P1000-LED

Device for education and training which measures the optical rotation according to the half-shade principle. The measurement results are read through an eyepiece and two noniuses.

(A.KRÜSS-Website)



GLASS MEASUREMENT TUBE - WITHOUT TEMPERATURE CONTROL

		P8000	P8000-P	P8000-T	P3000	P1000-
		P8100	P8100-P	P8100-T		LED
MEASUREMENT TUBE		Without temperature control	Temperature control with Peltier technology	Temperature control circulating thermostat/ temperature- controlled measurement tubes recommended	Without temperature control ²⁾	Without temperature control
	ement tube (without	•	trol)			
PRG-50-E und	PRG-100-E und PRG-2	200-E				
Available tube lenghts: 50/100/200 mm Luer connection: No Flow-through: No Required sample volume ¹): 3ml/50 mm 6 ml/100 mm 12 ml/200 mm	Abbreviation: PRG/ P/Polarimeter R/Tube G/Glass E/Filling funnel	PRG-100-E und PRG-200-E Supplied as part of the scope of delivery.	PRG-100-E und PRG-200-E Supplied as part of the scope of delivery.	PRG-100-E und PRG-200-E Supplied as part of the scope of delivery.	PRG-100-E und PRG-200-E Supplied as part of the scope of delivery.	
Glass measure PRG-100 und F	ement tube (without	temperature con	trol)			
Available tube lenghts: 100/200 mm Luer connections: No Flow-through: No Required sample volume ¹): 12 ml/100 mm 22ml/200 mm	Abbreviation: PRG/ P/Polarimeter R/Tube G/Glass	Applicable	Applicable	Applicable	Applicable	Glass measurement tube Supplied as part of the scope of delivery

¹⁾Details of the sample volume are "**approximate values**" and do not consider the filling level of the filling funnel or the respective product tolerances.



MICRO MEASUREMENT TUBE - WITHOUT TEMPERATURE CONTROL

		P8000	P8000-P	P8000-T	P3000	P1000-
		P8100	P8100-P	P8100-T		LED
MEASUREMENT TUBE		Without temperature control	Temperierung mit Peltier- Technologie	Temperature control Circulating thermostat/ Temperature- controlled measurement tubes recommended	Without temperature control ²⁾	Without temperatur e control
Glass measure PRG-50-M and	PRG-100-M	temperature cont	rol)			
		Applicable	Applicable	Applicable	Applicable	Applicable
Available tube lenghts: 50/100 mm						
Luer connection: No	Abbreviation: PRG/ P/Polarimeter					
Flow-through: No	R /Tube G /Glass					
Required sample volume ^{1):} 0.55 ml/50 mm 1.1 ml/100 mm						
	micro flow-through	measurement tub	be (without tem	perature control)	· · · ·	
		Only applicable with P8020	Only applicable with P8020	Only applicable with P8020	Only applicable with P8020	
Available tube lenghts: 10/100 mm Luer connection:	Abbreviation: PRM/ P/Polarimeter R/Tube M/Metal					
Yes Flow-through: Yes	S/ Tube connection D/ Flow-through					
Required sample volume ^{1):} 0,2 ml/10 mm 0,5 ml/100 mm	M/ Micro					

¹⁾Details of the sample volume are "**approximate values**" and do not consider the filling level of the filling funnel or the respective product tolerances.



FLOW-THROUGH MEASUREMENT TUBES – WITHOUT TEMPERATURE CONTROL

			E FOR POLA	1		
		P8000	Р8000-Р	P8000-T	P3000	P1000-
		P8100	P8100-P	P8100-T		LED
MEASUREMENT TUBE		Without temperature control	Temperature control with Peltier technology	Temperature control circulating thermostat/ temperature- controlled measurement tubes recommended	Without temperature control ³⁾	Without temperature control
	flow-through measu	rement tube (wit	hout temperatu	ure control)		
PRM-100-SD				Only applicable	Only applicable	
		Only applicable with P8020 ²⁾	Only applicable with P8020 ²⁾	with P8020 ²⁾	with P8020 ²⁾	
Available tube lenghts:	Abbreviation: PRM/					
100 mm	P /Polarimeter					
Luer	R /Tube					
connection:	M /Metal					
No Flow-through:						
Yes	S /Tube connection D /Flow-through					
Required sample volume ^{1):} 1,3 ml/100 mm	D/How-Infogn					
	flow-through measu	urement tube (wit	hout temperatu	ure control)		
PRM-100-D an	d PRM-200-D					1
		Only applicable with P8020 2)	Only applicable with P8020 ²⁾	Only applicable with P8020 ²⁾	Only applicable with P8020 ²⁾	
Available tube	Abbreviation: PRM/					
lenghts: 100/200 mm	PKM / P /Polarimeter					
Luer	R /Tube					
connection: No	M/Metal					
Flow-through:	D /Flow-through					
Yes Required	(with filling funnel)					
sample volume ¹⁾ :						
12 ml/100 mm						
17 ml/200 mm						

¹⁾Details of the sample volume are "**approximate values**" and do not consider the filling level of the filling funnel or the respective product tolerances.

 $^{2)}P8020 = Sample chamber bushing$

It is required to organize the sample filling by a pump or to enable the temperature control (hose bushing).



MEASUREMENT TUBES - TEMPERATURE-CONTROLLED (CIRCULATION THERMOSTAT PT80/PT31)

		P8000 P8100	P8000-P P8100-P	P8000-T P8100-T	P3000	P1000-
MEASUREMENT TUBE		Without temperature control	Temperature control with Peltier technology	Temperature control circulating thermostat/ temperature- controlled measurement tubes recommended	Without temperature control ³⁾	Without temperatu re control
Glass measure PRG-100-ET und	ment tube (temperated d PRG-200-ET	ure controlled)				
Available tube lenghts: 100/200 mm Luer connection: No	Abbreviation: PRM/ P/Polarimeter R/Tube G/Glas E/ Filling funnel			Applicable		
Flow-through: No Required sample volume ^{1):} 4 ml/100 mm 8 ml/200 mm	T/ temperature controlled (by surrounding water jacket)					
	measurement tube w	ith filling funne	l (temperature-	controlled)	1	
Available tube lenghts: 100 mm Luer connection: No Flow-through: No Required sample volume ¹⁾ :	Abbreviation: PRM/ P/Polarimeter R/Tube M/Metal E/Filling funnel T/temperature- controlled by surrounding water jacket)			Only applicable with P8020 ²⁾		

¹⁾Details of the sample volume are "**approximate values**" and do not consider the filling level of the filling funnel or the respective product tolerances.

$^{2)}P8020 = Sample chamber bushing$

It is required to organize the sample filling by a pump (hose bushing) or to enable the temperature control (temperature control bushing).



MEASUREMENT TUBE - TEMPERATURE-CONTROLLED (CIRCULATION THERMOSTAT PT80/PT31)

		APPLICABL	E FOR POLA	RIMETER		
		P8000	P8000-P	P8000-T	P3000	P1000-
		P8100	P8100-P	P8100-T		LED
MEASUREMENT TUBE		Without temperature control	Temperature control with Peltier technology	Temperature control circulating thermostat/ temperature- controlled measurement tubes recommended	Without temperature control ³⁾	Without temperature control
	flow-through measur	ement tube (ten	nperature-conti	rolled)		
PRM-100-DTT	and PRM-200-DTT	1		1	1	
6	Abbreviation: PRM/			Only applicable with P8020 ²⁾		
Available tube lenghts:	P /Polarimeter R /Tube					
100/200 mm	M /Metal					
Luer connection:						
No	D /Flow-through (with filling funnel)					
Flow-through:	T /Temperature					
Yes	controlled (via water					
Required sample volume ¹): 12 ml/100 mm 17 ml/200 mm	¯ jacket) ▼/Temperature sensor					
Temperature s	sensor				1	
PRT-E and PRT-						
				Can be used with all measurement tubes (equipped with a filling funnel ⁴)		
PRT-E		-				
PRT-T	emperature sensor	_				
	emperature sensor,					

¹⁾Details of the sample volume are "**approximate values**" and do not consider the filling level of the filling funnel or the respective product tolerances.

²)P8020 = Sample chamber bushing

It is required to organize the sample filling by a pump (hose bushing) or to enable the temperature control (temperature control bushing).

³⁾Temperature control is possible on request.

4) If no funnel is provided, the temperature sensor is located directly in the sample chamber.



STAINLESS STEEL FLOW-THROUGH MEASUREMENT TUBE – TEMPERATURE-CONTROLLED (CIRCULATION THERMOSTAT PT80/PT31)

		APPLICAB	LE FOR POL <i>A</i>	ARIMETER		
		P8000 P8100 Without	P8000-P P8100-P Temperature	P8000-T P8100-T Temperature	P3000 Without	P1000- LED Without
MEASUREMEN	IT TUBE	temperature control	control with Peltier technology	control circulating thermostat/ temperature- controlled measurement tubes recommended	temperature control ³⁾	temperature control
Stainless steel PRM-200-DT	flow-through measu	rement tube (te	mperature-cont			
	Abbreviation: PRM/			Only applicable with P8020 ²⁾		
Available tube lenghts: 200 mm Luer	P/Polarimeter R/Tube M/Metal					
connection: No Flow-through: Yes	D/Flow-through (with filling funnel) T/Temperature- controlled					
Required sample volume ¹⁾ : 17 ml/200 mm	(via water jacket)					
Stainless steel PRM-200-SDT	flow-through measu	rement tube (te	mperature-cont	rolled)	-	
	Abbreviation: PRM/			Only applicable with P8020 ²⁾		
Available tube lenghts: 200 mm	P/Polarimeter R/Tube M/Metal					
Luer connection: No	S/Tube connection D/Durchfluss T/Temperature-					
Flow-through: Yes Required sample volume ¹⁾ :	controlled (via water jacket)					

¹⁾Details of the sample volume are "**approximate values**" and do not consider the filling level of the filling funnel or the respective product tolerances.

²⁾P8020 = Sample chamber bushing - It is required to organize the sample filling by a pump (hose bushing) or to enable the temperature control (temperature control bushing).



MEASUREMENT TUBE - TEMPERATURE-CONTROLLED (CIRCULATION THERMOSTAT PT80/PT31)

		P8000	P8000-P	P8000-T	P3000	P1000-
MEASUREMENT TUBE		P8100	P8100-P	P8100-T		LED
		Without temperature control	Temperature control with Peltier technology	Temperature control circulating thermostat/ temperature- controlled measurement tubes recommended	Without temperature control ³⁾	Without temperature control
Stainless steel flo PRM-100-SDTM-2	<mark>ow-through measur</mark> 2,5	ement tube				
Available tube lenghts: 100 mm Luer connection: Yes Flow-through: Yes Required sample volume ¹): 0,5 ml/100 mm Stainless steel m PRM-100-SDTM-4	Abbreviation: PRM/ P/Polarimeter R/Tube M/Metal S/Tube connection D/Flow-through T/Temperature- controlled M/Micro icro flow-through m	neasurement		Only applicable with P8020 ²)		
<u> 21 - 14</u>	Abbreviation: PRM/			Only applicable with P8020 ²⁾		
Available tube	P /Polarimeter			Recommended		
lenghts:	R /Tube			micro		
100 mm Luer connection:	M /Metal			measurement		
Yes				tube		
Flow-through:	S /Tube connection					
Yes	D/Flow-through					
Required sample volume ¹⁾ :	T/Temperature- controlled					
	M/Micro	1	1		1	1

¹⁾ Details of the sample volume are "**approximate values**" and do not consider the filling level of the filling funnel or the respective product tolerances.

²)P8020 = Sample chamber bushing - It is required to organize the sample filling by a pump (hose bushing) or to enable the temperature control (temperature control bushing).



POLARIMETER MEASUREMENT TUBE – TEMPERATURE-CONTROLLED (PELTIER TEMPERATURE CONTROL)

APPLICABLE FOR POLARIMETER							
MEASUREMENT Glass measuren PRG-100-EPT	TUBE nent tube (Peltier ter	P8000 P8100 Without temperature control	P8000-P P8100-P Temperature control with Peltier technology	P8000-T P8100-T Temperature control circulating thermostat/ temperature- controlled measurement tubes recommended	P3000 Without temperature control ²	P1000- LED Without temperature control	
Available tube lenghts: 100 mm Luer connection: No Flow-through: Yes Required sample volume ¹): 8 ml/100 mm	Abbreviation: PRG/ P/Polarimeter R/Tube G/Glass EPT/Peltier temperature control (with two filling openings)	Not applicable	Recommended glass measurement tube	Not applicable	Not applicable	Not applicable	

¹⁾Details of the sample volume are "**approximate values**" and do not consider the filling level of the filling funnel or the respective product tolerances.

POLARIMETER QUARTZ CONTROL PLATES

Quartz control plates	P8000 P8100 Without temperature control	P8000-P P8100-P Temperature control with Peltier technology	P8000-T P8100-T Temperature control circulating thermostat/ temperature- controlled measurement tubes recommended	P3000 Without temperature control ¹⁾	P1000- LED Without temperature control	
PQP+17 Angle of rotation: $\pm 17^{\circ} (\pm 1^{\circ}), \pm 50^{\circ}Z (\pm 1^{\circ}Z)$ PQP+34 Angle of rotation: $\pm 34^{\circ} (\pm 1^{\circ}), \pm 99^{\circ}Z (\pm 1^{\circ}Z)$ PQP-17 Angle of rotation: $\pm 17^{\circ} (\pm 1^{\circ}), \pm 50^{\circ}Z (\pm 1^{\circ}Z)$	Premium quartz control plate suitable for the whole product range, Accuracy: ±0.001°, With PTB-traceable factory certificate, Valid for PTB certificate, issuing of certificate on request, Wavelength: 589 nm, Temperature: 20 °C, Housing: Stainless steel					
Polarimeter Quartz control plate PQE+17 Angle of rotation: $+17^{\circ} (\pm 1^{\circ}), +50 ^{\circ}Z (\pm 1 ^{\circ}Z)$ PQE+34 Angle of rotation: $+34^{\circ} (\pm 1^{\circ}), +99 ^{\circ}Z (\pm 1 ^{\circ}Z)$ PQE-17		A With PTB-t	plate suitable for the ccuracy: ±0.005°, rraceable factory ce alid for PTB certifice	ertificate,	range,	
Angle of rotation: -17° (±1°), -50 °Z (±1 °Z) PQE-34 Angle of rotation: -34° (±1°), -99 °Z (±1 °Z)	Wavelength: 589 nm, Temperature: 20 °C, Housing: Stainless steel					

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