

TECHNICAL DATA – PROCESS REFRACTOMETERS

	PR21S	PR21S-T	PRB21S
SCALES	Refractive index (nD) concentration of sucrose, glucose, fructose and invert sugar [%Brix], User-defined		
MEASUREMENT RANGE	nD 1.3200–1.5200* 0–95%Brix		nD 1.3200–1.5600* 0–95%Brix
MEASUREMENT ACCURACY	nD ± 0.0002 $\pm 0.2\%$ Brix		
RESOLUTION	nD 0.0001 0.1%Brix		
MOUNTING	Inline		Atline
PERMITTED PRESSURE LOAD	1–10 bar		1–3 bar
MEASUREMENT PERIOD	3–60 s		
MEASUREMENT PRISM	Sapphire		
LIGHT SOURCE	LED		
WAVELENGTH	589 nm		
TEMPERATURE COMPENSATION	ICUMSA or freely definable		
TEMPERATURE MEASUREMENT	With integrated temperature sensor Pt100		
TEMPERATURE MEASUREMENT RANGE	10–120°C		10–120°C
TEMP. MEASUREMENT ACCURACY	$\pm 0.2^\circ\text{C}$		
TEMP. MEASUREMENT RESOLUTION	0.1°C		
PROCESS TEMPERATURES	10–60°C	10–120°C	10–60°C
AMBIENT TEMPERATURE	0–60°C		0–40°C
HOUSING	Stainless steel, aluminum cast, powder-coated		
INTERFACES	Analogue 0/4-20 mA, RS-232, optional PROFIBUS		
IP CODE	IP65		
OPERATING VOLTAGE	24 V (18–30 V)		
POWER CONSUMPTION (MEASUREMENT OPERATION)	5 W without display, 6 W with display		
DIMENSIONS (W X H X D)	180 mm x 190 mm x 180 mm		
WEIGHT	3.5 kg		3 kg
SPECIAL FEATURES		Water cooling	

* The measurement range of your device will be configured individually based on the specifications made in the PDF requirement profile provided by us. A binding order only comes into effect once you have returned the fully completed form to us.