

Technical Data - PBA - S

Technical Specifications		
	Measuring range	Repeatability s.d.
Density	0 g/cm ³ to 3 g/cm ³	DMA™ 4100 M: 0.00005 g/cm ³
		DMA™ 4500 M: 0.00001 g/cm ³
		DMA™ 5000 M/ SDA M: 0.000001 g/cm ³
Concentration sugar	0 °Brix to 15 °Brix	<0.01 °Brix
Concentration sugar fresh/ inverted	0 °Brix to 15 °Brix	0.02 °Brix
Degree of inversion	0 % to 100 %	1%
CO ₂	0 vol. to 6 vol. (0 g/L to 12 g/L) at 30 °C (86 °F)	0.005 vol. (0.01 g/L)
	0 vol. to 10 vol. (0 g/L to 20 g/L) <15 °C (59 °F)	
%Diet concentration for typical diet beverage compositions	0 % to 200 % or 0 mL to 100 mL NaOH or 0 g/L to 100 g/L TA	Colored diet drinks: 0.2 % Uncolored diet drinks (UV): 0.4 % Uncolored or turbid diet drinks (density): 0.4 %
O ₂	0 ppm to 4 ppm	2 ppb (in the range <200 ppb)
pH	pH 0 to pH 14	0.02 (in the range pH 3 to pH 7)
Measuring time	PBA-S: 2 to 3 minutes	
	PBA-SI/-SD/-SID: 3 to 5 minutes	
Maximum allowed volume of packages to be handled by PFD/PFD Plus	Can: 0.5 L/ Glass bottle: 1 L/ PET bottle: 3 L	
Sample temperature	DMA™ series: 4 °C to 25 °C (39 °F to 77 °F)	
	SDA M: 15 °C to 25 °C (59 °F to 77 °F)	
Sample volume per measurement	PBA-S: 120 mL to 150 mL (approx. 20 mL per additional measuring module)	
Compressed gas	Class 5 from ISO 8573-1	
Necessary quality of air if used as compressed gas supply	Max. particle size: 40 µm	
	Max. pressure dew point: +7 °C (44.6 °F)	
	Max. oil content: 25 mg/m ³	
Compressed gas	Purity ≥99.999 %	

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Necessary quality of nitrogen supply if Option O ₂ is installed	Class 5.0
	Max. particle size: 40 µm
	Max. pressure dew point: +7 °C (44.6 °F)
Operating pressure for PBA-S M system	6 ±0.5 bar relative (87 ±7 psi)
Dimensions (L x W x H) of the PBA-S M system	495 mm x 700 mm x 670 mm (19.5 in x 27.6 in x 26.4 in)
Voltage	AC 100 to 240 V, 50/60 Hz
Power consumption	190 VA (incl. external measuring modules)
Power inlet	According to IEC/EN 60320-1/C14, protection class I
Fuses	Glass tube fuses 5 x 20 mm; IEC60127-2; AC 250 V; T 5 AH
Environmental conditions (EN 61010)	Indoor use only
Ambient temperature	15 °C to 35 °C (59 °F to 95 °F)
Air humidity	10 % to 90 % relative humidity, non-condensing
Pollution degree	2
Overvoltage category	II
Altitude	Max. 3000 m (9800 ft)
Touch screen	10.4" TFT PCAP touchscreen 640 x 480 px
Housing material	Top and side cover: Aluminum (coated)
	Back: Aluminum
	Front, Xsample™ slot cover plate: Polystyrene/butadiene
Memory	1000 measured data with/without camera pictures
Interfaces	4x USB, Ethernet, CAN Bus, RS232, VGA
RS232 printer settings	Interface: RS-232; Baud rate: 9600; Parity: none; Stop bit: 1; Data bits: 8