4500 System Specifications

4/1/2015

Base Station	Light source	670 nm
	Detection speed	4 ms
	Incident angles	40-47 Deg (gas) 67-81 Deg (liquid)
	Baseline noise	< 0.06 RU RMS (0.01 mDeg RMS)
	Baseline drift	0.30 RU/hr (0.05 mDeg/hr) (when ambient drifts < 1°C/hr)
	Temperature Control Range	6°C to 50°C (10°C below ambient temperature max)
	PC interface	USB 3.0
	Outer dimension	355(w) x 250 (h) x 515 (d) mm
	Weight	11.5 kg
	Power supply	110-230 V 50/60 Hz
Fluid Handling	Number of sample flow channels	5 channels
	Flow cell material	PEEK (biologically compatible)
	Flow rate	1.0 to 250 µL/min (application dependent)
	Sample injection volume	>50 µL (application dependent)
	Sample injection method	Fully automated (autosampler option) Semi-automated
	Channel volume	< 32 nL
	Injection rise time	< 0.2 s
	Kinetic constant	k_a <1 X 10^8 $M^{-1}s^{-1}$ k_d >1 X 10^{-6} s^{-1}
	Affinity	K_D = 10^{-3} M (1 mM) to 10^{-12} M (1 pM)
	Molecular weight cutoff	100 Da
	Analysis module	5 channel BI-DirectFlow™ Module
Control System	Computer	Windows operating system
	Software	BI-SPR software including Data Analysis and Kinetics Analysis packages