

Model BT65 Cell Growth Sensor

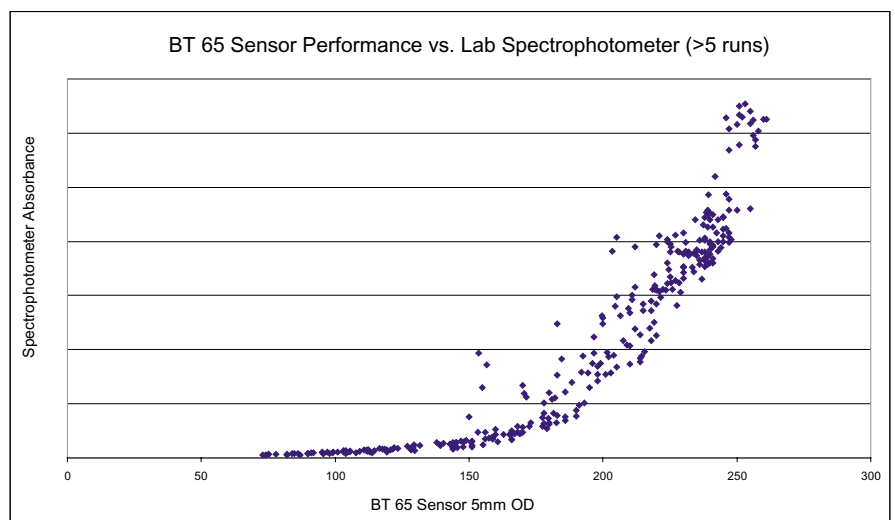


Optical insertion probe designed for use with the Model 950 absorbance monitor to monitor cellmass in bacterial fermentation and mammalian cell culture applications

- Accurately tracks cell mass with optical density measurement
- Multiple path lengths available for measurement optimization
 - 5mm path length for microbial fermentation
 - 20mm path length for mammalian cell culture
- Low voltage incandescent lamp provides long dependable life
- CIP, SIP and scratch resistant sapphire optical windows withstand the harshest of conditions
- Ultra-hygienic, CIP and SIP resilient flow cell design available with material finish of $16\mu\text{inch}$ ($0.4\mu\text{m}$) R_a
- Simple calibration to traceable standard with unique slide-on calibration filter set
- Available in several lengths to accommodate any depth and tank fitting requirement
- Variety of mounting styles available to fit most popular tank port fittings. Double aseptic seal arrangements available
- Fully autoclaveable with supplied connector cap in place



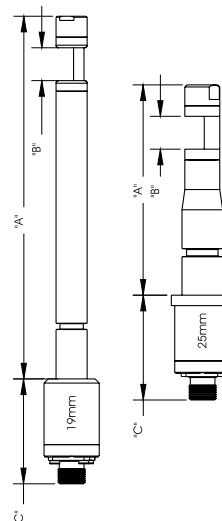
Calibrate Quickly with
Optional Slide On
Calibration Filters



Specifications

Pathlength	5, 10, and 20 mm available
Measurement wave-length	Broadband NIR from 850 nm
Signal output	Low level current from high stability silicon photodetector
Process connections	Tri-Clamp, Ingold® style 19mm and 25mm port, B.Braun 25mm safety port. Others available on request
Sensor body materials	316L, AL6XN®, Hastelloy®. Others available on request
Sensor finish	Electropolished, 16µinch (0.4 µmeter) R _a or better
O-seal material	EPDM. Others available on request
Window material	Sapphire
Lamp type	Miniature incandescent lamp
Lamp power	4 watts max.
Optical filter	Long pass optical filter minimises color sensitivity
Detector type	Solid state silicon photodetector
Cable connectors	6 pin corrosion resistant Bendix connector complete with autoclave cap
Cable length	Standard lengths available are 10, 15, 25 and 50ft, custom lengths up to 300ft maximum (3, 5, 7, and 15m, up to 100m maximum)
Max pressure	300 psig (20bar)
Max temperature	80°C (176°F) continuous, 130°C (266°F) for 2 hours (SIP cycle)
Standard probe lengths	110, 160, 205, 260, 325, 360, 460, 560, and 1010 mm (add pathlength for complete length). Custom lengths available on special order

BT65 TYPE	"A" DIMENSION		"B" DIMENSION		"C" DIMENSION	
25 mm	4.53 in	115 mm	.197 in	5 mm	2.52 in	64 mm
25 mm	4.72 in	120 mm	.394 in	10 mm	2.52 in	64 mm
25 mm	5.12 in	130 mm	.787 in	20 mm	2.52 in	64 mm
25 mm	6.50 in	165 mm	.197 in	5 mm	2.52 in	64 mm
25 mm	6.69 in	170 mm	.394 in	10 mm	2.52 in	64 mm
25 mm	7.09 in	180 mm	.787 in	20 mm	2.52 in	64 mm
25 mm	14.37 in	365 mm	.197 in	5 mm	2.52 in	64 mm
25 mm	14.57 in	370 mm	.394 in	10 mm	2.52 in	64 mm
25 mm	14.96 in	380 mm	.787 in	20 mm	2.52 in	64 mm
25 mm	22.24 in	565 mm	.197 in	5 mm	2.52 in	64 mm
25 mm	22.44 in	570 mm	.394 in	10 mm	2.52 in	64 mm
25 mm	22.84 in	580 mm	.787 in	20 mm	2.52 in	64 mm
19 mm	8.28 in	210 mm	.197 in	5 mm	2.52 in	64 mm
19 mm	8.46 in	215 mm	.394 in	10 mm	2.52 in	64 mm
19 mm	8.86 in	225 mm	.787 in	20 mm	2.52 in	64 mm
19 mm	12.99 in	330 mm	.197 in	5 mm	2.52 in	64 mm
19 mm	13.19 in	335 mm	.394 in	10 mm	2.52 in	64 mm
19 mm	13.58 in	345 mm	.787 in	20 mm	2.52 in	64 mm



Dimensions

BT65-	E	---		-		-	
			Process Connection A-- Ingold® 19mm B-- Ingold® 25mm H-- Braun 25mm Safety port I-- 19mm Compression Fitting T-E 1.5" Tri-Clamp T-F 2" Tri-Clamp T-G 2.5" Tri-Clamp T-H 3" Tri-Clamp				
			Optical Pathlength 3 5mm 4 10mm 5 20mm				
			Insertion Length A 110mm B 160mm D 205mm (19mm only) E 260mm F 325mm (19mm only) G 360mm H 460mm I 560mm K 1030mm X Custom Length				
			<i>Add pathlength for full insertion length</i>				

Order Code

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