DISSOLVED OXYGEN

D100 Series 12 mm OxyProbe[®]

Features And Applications:

- Improved Anode-Cathode Assembly
- ▶ Easy to Replace Membrane Cartridge
- ▶ Superior Membrane Cartridge Design
- ▶ Unique T-PullTM Handle
- ▶ 100% Quality Assurance & Quality Control
- Reduced Down-Time and Maintenance

This series of OxyProbe[®] 12 mm diameter dissolved oxygen sensors is available in three individual configurations. They fit the wide array of installation requirements found in steam sterilizable and autoclavable applications for the food, beverage, and biopharmaceutical industries.

The Models D100 is a clean and economical sensor configuration designed to fit into all 12 mm compression fittings used by many fermentation vessel and bioreactor manufacturers. This design allows for a very low profile installation; no more damaged sensors due to impacts while installing or removing vessels from the autoclave.

The Model D120 incorporates the Broadley - James captive hex nut, a reliable method of securing the dissolved oxygen sensor to a mating BJC housing or fitting.

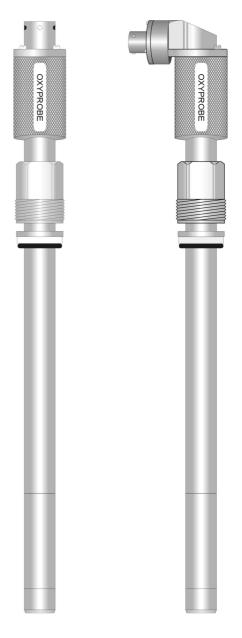
The model D140 is supplied with a Euro-standard PG 13.5 threaded fitting for compatible housings, and fittings. These include all Mettler-Toledo/Ingold fittings which utilize a PG 13.5 thread design, including Valve-Retraction assemblies.

All three configurations are available with the T-Pull™ handle design. This feature provides a low profile that protects the cable and connector. Also, when placed on a flat surface, the T-Pull™ handle prevents the sensor from rolling off and impacting with the floor, saving costly repairs and loss of service.

The wide variety of physical configuration insures that there is a type and size that will fit into your vessel or housing, regardless of manufacturer or age.

Each configuration is available with a large selection of insertion lengths. Custom insertion lengths are also available.

Just like the D200 (19mm) and the D400 (25 mm), the D100 series of dissolved oxygen sensors are designed to work with the Bela Instruments D.O. transmitters and most existing polarographic dissolved oxygen instruments and cables. Give us a call and we would be pleased to suggest the most suitable design for you particular vessel.



OxyProbe ® Dissolved Oxygen Sensors D100 Series:

Principle Sensor Components

Ditto Series.				
Measurement Principal		larographic	4 -pin plug _ hermetically sealed	
Cathode				
Anode				
Membrane				Q
		nforced with	Sensor body	
stainless	steel scree	en	316L stainless steel	OXYPROBE ———
Electrolyte	KOH/KCI solution, p	oH 13		
Polarization volage	.675 mV			
Output signal in air at 25 °C	.Approximately 60	x 10 ⁻⁹ amps		
Residual signal in oxygen				
free medium			Captive 316L SST	
Temperature range	.Operation: 0 to 80	°C	Retainer Fitting -	<u></u>
	Sterilization: Max.		Pg 13.5 Thread	
Temperature Compensation				
Tomporataro componication	@ 25 °C 1	NTC	Mounting Flange	
thermistor	@ 20 01	110	316L SST	$\longrightarrow \Box$
Stability	Pottor than 2 % of	fraadout	Teflon Washer -	
• Stability	per week at const		Viton O-ring	
	and temperature (size : AS-111	
. Lincovity				
• Linearity				
• Response time at				
25 °C	less than 60 secon			
37 °C	less than 20 secon		EDDM O -i	
Max. pressure			EPDM O-ring _ size : AS-011	
Max. flow error				
	solution being mea			
	approximately 3-59		Silver anode -	
Connector	.Standard 4 pin disc		Sliver allode -	
	moistureproof with		Glass stem with	
	metal hermetic sea		built-in 22K Ω thermistor $^{-}$	\longrightarrow \bigcirc
Wetted materials	.316L Stainless Ste		Platinum cathode -	
	Silicone rubber, Te			
 Under laboratory conditions in deionized water 		Cartridge sleeve 316L stainless steel		
STANDARD SIZES:			e roe stannous steer	
D100 Series Oxyprobe Sensors	D140 Series Oxyp	robe Sensors		
Part Number Length		Length	•	
D100-B158-PT-D9 B = 158 mm		B = 120 mm	316L SST cartridge with composite	
D100-B188-PT-D9 B = 188 mm		B = 150 mm	Teflon/silicone rubber membrane	
D100-B258-PT-D9 B = 258 mm		B = 220 mm	reinforced with steel mesh	
D100-B358-PT-D9 B = 358 mm		B = 320 mm		
D100-B458-PT-D9 B = 458 mm	D140-B420-PT-D9	B = 420 mm		
D120 Series Oxyprobe Sensors				
Part Number Length	Miscellaneous Pa	rts		
D120-B130-PT-D9 B = 130 mm	KA1201		e Cartridge	
D120-B160-PT-D9 B = 160 mm	KA1204		mbrane Cartridges	
D120-B210-PT-D9 B = 210 mm D120-B310-PT-D9 B = 310 mm	AS-3140-C30-0025	⊨iectrolyt	e, 25 ml bottle	
D120-B310-F1-D9 B = 310 mm				
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Cables, polarizers, accessories, and instruments are also available. Please contact us for additional information at the address below.



6/309, Jogani Industrial Complex, V. N. Purav Marg, Chunabhatti, Mumbai - 400 022.