MEGITECH AUTOMATION DISSOLVED OXYGEN

Data Sheet D200 & D400/082k2

Process Automation Solutions D200 & D400 Series 19 and 25 mm OxyProbes®

Features And Applications:

- Modular Design, Rebuildable
- Lasy to Replace Membrane Cartridge
- Superior Membrane Cartridge Design
- Unique T-PullTM Handle
- 4 100% Quality Assurance & Quality Control
- & Reduced Down-Time and Maintenance

These sensors provide the user with a modular design that permits easy repair and component interchangeability. The D200 (19 mm) and D400 (25 mm) series of OxyProbe® dissolved oxygen sensors are available in several configurations. This allows them to fit the wide array of installation requirements found in steam sterilizable and outoclavable applications in the food, beverage, and biopharmaceutical industries.

The Models D200 and D205 represent the standard configuration for 19 mm head plate fittings used by many fermentation vessel and bioreactor manufactures.

The Models D400 and D405 are the conventional configurations that fit all standard (Ingold) 25 mm side wall ports, found in most large scale fermentation vessels and bioreactors. For B. Braun vessels fitted with their unique 25 mm ports we offer the Models D430 and D435.

All 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.

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

The D200 and the D400 series of dissolved oxygen sensors are designed to work with the Bela Instruments

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 D200 & D400 Series:

	Measurement Principal	Platinum (Pt)
	Anode	
	Membrane	.Composite of Teflon & Silicone
		rubber reinforced with
	stainless	steel screen
	Polarization volage	075 1110
	Output signal in air at 25 °C	
•	Residual signal in oxygen	< 1% of current in ambient air
	free medium	
	Temperature range	Operation: 0 to 80 °C
	remperature range	Operation. U to 60 C
		Sterilization: Max. 135 °C
	Temperature Compensation	Automatic with integral 22 k Ω
		@ 25 °C NTC
	thermistor	
_	Stability	Better than 2% of readout
•	Stability	
		per week at constant pressure
		and temperature (30 °C)
•	Linearity	Better than +0.3% of readout
	Response time at	
	25 °C	less than 60 seconds
	23 ℃ 37 ℃	
		less than 20 seconds
	Max. pressure	
•	Max. flow error	Between resting and stirred
		solution being measured:
		approximately 3-5% of readout
	Connector	
	Connector	
		moistureproof with glass to
		metal hermetic seal
	Wetted materials	.316L, Silicone rubber
	Seals	Silicon rubber
	Under laboratory condit	
	• Officer laboratory conditi	ions in delonized water

STANDARD SIZES:

19 mm Diameter		25 mm Diameter	
Part Number	Length	Part Number	Length
D200-B150-PT-D9	B = 150 mm	D400-B070-PT-D9	B = 70 mm
D200-B220-PT-D9	B = 220 mm	D400-B150-PT-D9	B = 150 mm
D200-B320-PT-D9	B = 320 mm	D400-B220-PT-D9	B = 220 mm
D200-B420-PT-D9	B = 420 mm	D400-B320-PT-D9	B = 320 mm
		D400-B420-PT-D9	B = 420 mm

Miscellaneous Parts

KA2501 Membrane Cartridge
KA2504 Kit, 4 Membrane Cartridges
AS-3140-C30-0025 Electrolyte, 25 mm bottle
316L Cap nut for D400
AM-9201 316L Cap nut for D200

Cables, polarizers, accessories, and instruments are also available. Please contact us for additional information at the address below.

Principle Sensor Components



