

Precision Optical Oxygen Analyzers - Gas or Liquid Phase	
Analyzer / Controller, NEMA4X SS Surface Mount Enclosure-Backlight LCD-26,000 Point Datalogger-RS232 2 each Outputs 4 to 20mA2 each I/O to 10VDC FM Cl 1, Div 2, Groups A, B, C, D / T4	
4401OXY	100 to 240VAC Operational Power
4401OXY-CE	100 to 240VAC Operational Power, CE Approval
4401OXY-DC	9 to 24VDC Operational Power
4401OXY-DC-CE	9 to 24VDC Operational Power, CE Approval



BOS Precision Optical Oxygen Sensors - Gas or Liquid Phase

Sensor Type	Sensor & Seals	Body Material	Process Connection	Cable Armor	Sensor Length	Lead Length	Agency Approval
Optode							
BOS1	Gas (0 - 4.2% O ₂ , 0 - 41.4 hPa) or Liquid (0 - 1.8 ppm)						
BOS2	Gas (0 - 25% O ₂ , 0 - 250 hPa) or Liquid (0 - 22 ppm)						
BOS3	Gas only (0 - 300 ppm with 1000 ppm over-range)						
Sensor and Seals							
N	BOS FIBERSENSE 4mm wand-style sensor (no integral temperature compensation, sold separately)						
V	Viton O-ring seals (BOS FLEXSENSE & BOS SAFETAP Sensors only)						
E	EPDM O-ring seals (BOS FLEXSENSE & BOS SAFETAP Sensors only)						
K	FFKM (perfluoroelastomer) O-ring seals (BOS FLEXSENSE & BOS SAFETAP Sensors only)						
Body Material							
1	316 Stainless (all versions)						
2	Titanium Gr2 (BOS FLEXSENSE Sensors only)						
3	Hastelloy-C 276 (BOS FLEXSENSE Sensors only)						
Process Connection							
A	4mm Wand (BOS FIBERSENSE Sensors only)						
B	1" Male NPT Assembly Mounting Nut (BOS FLEXSENSE Sensors only)						
C	1/2" Male NPT Assembly Mounting Nut (BOS FLEXSENSE Sensors only)						
D	1/2" Male NPT Ball Valve 750 PSIG Max (BOS SAFETAP sensors only)						
E	1/2" Male NPT Ball Valve 29" Hg Vacuum / 250 PSIG Max. NACE MR0175 (BOS SAFETAP sensors only)						
Cable Armor							
1	Armor Jacketing Protection						
2	PVC Jacketed Fiber - BOS FIBERSENSE sensors only (Use "N" For PVC Jacket Length)						
BOS Sensor Overall Length (Refer to "4401OXY Oxygen Analyzer & BOS Sensors Datasheet")							
0.7	0.7M (2.3ft) ("N" Standard lead length only)						
2.5	2.5M (8.2ft)						
5.0	5.0M (16.4ft)						
10.	10M (32.8ft) BOS1 and BOS2 Sensors only						
XXX	Special Length (If >10M consult factory)						
PVC Jacket Length. Select "N" for BOS FIBERSENSE & SAFETAP Sensors. Options 1, 2, 5, 7 for BOS FLEXSENSE UL Dual Seals sensors ONLY. These options allow PVC jacket fiber length specified separate from the overall jacket fiber length. (Refer to "4401OXY Oxygen Analyzer & BOS Sensors Datasheet")							
N	Standard - direct connect to 4401OXY Analyzer - Required for BOS FLEXSENSE & SAFETAP Sensors						
1	PVC Jacket Fiber Length 1M (Temperature Comp separate, with certified 1/2" NPT cable gland)						
2	PVC Jacket Fiber Length 2M (Temperature Comp separate, with certified 1/2" NPT cable gland)						
5	PVC Jacket Fiber Length 5M (Temperature Comp separate, includes certified 1/2" NPT cable gland, 10M length only)						
7	PVC Jacket Fiber Length 7M (Temperature Comp separate, includes certified 1/2" NPT cable gland, 10M length only)						
X	Special PVC Jacket Fiber Length (If >10M consult factory)						
Agency Approval							
ST	Standard						
SN	Standard with no integral TC (Use B1150-1005 below)						
UL	UL Dual Seal Approval (BOS FLEXSENSE only, No integral Temperature Compensation available)						
Mil	AIP	Body	Elec	Tip	TC	Opt	Depth
BOS1	V	1	B	1	2.5	N	UL



Typical Sensor Configuration

Sample Calibration Panels for Gas (120/240VAC)

SCP-CF	Sample Calibration Panel for Gas, For BOS FLEXSENSE, SS panel includes the flowcell, pressure regulator, filters, and glass tube flow meters
SCP-CT	Sample Calibration Panel for Gas, For BOS FIBERSENSE, SS panel includes the flowcell, pressure regulator, filters, and glass tube flow meters

NOTE - When ordering Sample Calibration Panels the 4401OXY Oxygen Analyzer, BOS sensor, and temperature sensor must be specified separately. Consult Barben for assistance.

Accessories for BOS FLEXSENSE Optical Sensors

B4992-1001	Flow Cell Assy 316SS for 120mm Length Sensor with 1/2"NPT Thread 1/4" Compression Inlet/Outlet 150 PSIG max pressure (Drawing 2P0224)	
B4992-1005	Flow Cell Assy 316SS for 120mm Length Sensor with 1" NPT Thread 1/4" Compression Inlet/Outlet 150 PSIG max pressure (Drawing 2P0255)	
B4992-1006F	Flow Cell Assy 316SS for 120mm Length Sensor with 1/2"NPT Thread 1/4" Compression Inlet/Outlet 1000 PSIG max pressure (Drawing 2P0270)	
B4992-1007F	Flow Cell Assy Titanium for 120mm Length Sensor with 1/2"NPT Thread 1/4" Compression Inlet/Outlet 1000 PSIG max pressure (Drawing 2P0270)	
B4992-1008F	Flow Cell Assy Hastelloy C 276 for 120mm Length Sensor with 1/2"NPT Thread 1/4" Compression Inlet/Outlet 1000 PSIG max pressure (Drawing 2P0270)	

BOS FLEXSENSE Replacement Window Cap Assemblies

Part #	Optode	Body Material (Wetted)	O-Ring Seals (Wetted)
B3907-1051	BOS1	316 Stainless	Viton
B3907-1052	BOS1	Titanium Gr2	Viton
B3907-1086	BOS1	Hastelloy-C 276	Viton
B3907-1087	BOS1	316 Stainless	EPDM
B3907-1074	BOS1	Titanium Gr2	EPDM
B3907-1082	BOS1	Hastelloy-C 276	EPDM
B3907-1088	BOS1	316 Stainless	FFKM (perfluoroelastomer)
B3907-1080	BOS1	Titanium Gr2	FFKM (perfluoroelastomer)
B3907-1084	BOS1	Hastelloy-C 276	FFKM (perfluoroelastomer)
B3907-1053	BOS2	316 Stainless	Viton
B3907-1054	BOS2	Titanium Gr2	Viton
B3907-1089	BOS2	Hastelloy-C 276	Viton
B3907-1090	BOS2	316 Stainless	EPDM
B3907-1075	BOS2	Titanium Gr2	EPDM
B3907-1083	BOS2	Hastelloy-C 276	EPDM
B3907-1091	BOS2	316 Stainless	FFKM (perfluoroelastomer)
B3907-1081	BOS2	Titanium Gr2	FFKM (perfluoroelastomer)
B3907-1085	BOS2	Hastelloy-C 276	FFKM (perfluoroelastomer)
B3907-1041	BOS3	316 Stainless	Viton
B3907-1058	BOS3	Titanium Gr2	Viton
B3907-1072	BOS3	Hastelloy-C 276	Viton
B3907-1040	BOS3	316 Stainless	EPDM
B3907-1057	BOS3	Titanium Gr2	EPDM
B3907-1071	BOS3	Hastelloy-C 276	EPDM
B3907-1042	BOS3	316 Stainless	FFKM (perfluoroelastomer)
B3907-1070	BOS3	Titanium Gr2	FFKM (perfluoroelastomer)
B3907-1073	BOS3	Hastelloy-C 276	FFKM (perfluoroelastomer)

Accessories for BOS FIBERSENSE Optical Sensors

B4992-0013	Flow Cell Compression Cross SS316 for 1/4" Slip Stream - 4mm and 1/4" Ports for Oxygen & Temp Sensor (Drawing 2P0194)
B4954-1004	Wand Compression Fitting SS316 for 1/4" Slip Stream - Use with 1/4" tubing fittings (customer supplied)

General Accessories for Optical Sensors

B1150-1001	External Temperature Compensation - PT1000 Sensor - 1/4" Dia x 4" 316SSS Body - 8ft Cable NO Armor
B1150-1000	External Temperature Compensation - PT1000 Sensor - 1/4" Dia x 4" 316SSS Body - 15ft Cable NO Armor
B1150-1002	External Temperature Compensation - PT1000 Sensor - 1/4" Dia x 4" 316SSS Body - 15ft Cable with Armor
B1150-1005	External Temperature Compensation - PT1000 Sensor - 1/8" Dia x 4" 316SSS Body - 2ft Cable with Armor (For SCP Panels)
B4965-1000	Flowmeter 0.2 - 2.5 LPM w/SS Valve