

Date: _____
Company & Location: _____

Name: _____

Phone: _____
Email: _____

DESCRIBE APPLICATION BELOW (LIST STREAM COMPONENTS & CONCENTRATIONS):

PROCESS DATA:

Phase of process to be measured: Liquid Gas Mixture

If gas phase, what is the desired measurement? Concentration (% O₂, ppm) Partial Pressure (hPa, Torr)

Measurement Range (min/normal/max)?

Sample Temperature °C/°F (min/normal/max)?

Ambient Temperature °C/°F (min/normal/max)?

Sample Pressure and units (min/normal/max)?

Are there organic solvents or aromatics (Toluene, Benzene, etc)?

If yes - what is the concentration? (% or ppm):

Are there any strong oxidizers / reducers (Cl₂, Br₂) in the stream?

If yes - what is the concentration? (% or ppm):

SENSOR INSTALLATION DETAILS:

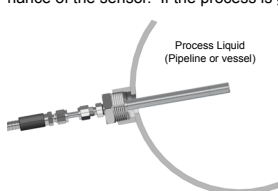
How will the sensor be mounted? Insitu* Extractive (flowcell)

Is a sample system required? Yes No

* Insitu mounting in gas phase applications may require pressure compensation.

Insitu


An insitu installation mounts the optical sensor directly into the process. This type of installation provides fast response. When planning for this type of installation, isolation of the sensor should be considered to accommodate calibration and maintenance of the sensor. If the process is gas phase with pressure other than ambient then pressure compensation may be necessary to maintain an accurate oxygen reading.



Process Liquid (Pipeline or vessel)

Extractive

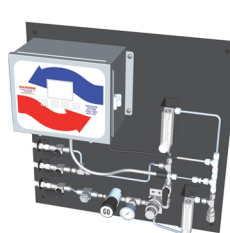
Extractive oxygen installations mount the oxygen sensor in a sample line off the main process. Sample lines are used to regulate the pressure and temperature of stream to be measured. The sensor can be mounted through a 1/4" tubing fitting or in a flowcell. Barben Analytical has a number of options for flowcells with various process connections and materials of construction.



12mm Oxygen Sensor Flowcell mounted in sample line

Sample System

For sample line installations without pre-existing pressure and/or temperature regulation Barben Analytical can provide a Sample Calibration Panel (SCP). The SCP includes flow meters, pressure regulators and calibration gas connections to ensure a proper installation. Consult Barben technical support on panel design options.



The Barben Analytical SCP provides the sensor, analyzer and all sample line component pre-installed on a panel

SENSOR MATERIALS OF CONSTRUCTION (SELECT PREFERRED MATERIAL):

Body Material:	316 Stainless Steel (Standard)	Titanium	Hastelloy C-276
O-Ring Material:	Viton® (Standard)	EPDM	FFKM (Kalrez)

ADDITIONAL ANALYZER & SENSOR INFORMATION:

Distance between sensor and analyzer: _____ Electrical Area Classification: _____

Will the analyzer be mounted in the same area classification as the sensor? Yes No

Input Power: 4 Wire 9 - 24VDC 4 Wire 120 - 240VAC

Thank you for your interest in Barben Analytical Products. Click the "Submit Form" button to email to Barben Technical Support or use the contact information provided to submit.

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