

SPECTROMETER SENSORS FOR pH AND O₂

Spectrometer based systems can provide effective remote measurements of pH and O₂. The two systems shown below utilize Ocean Optics fiber optic pH sensors and Ocean Optics "Foxy" O₂ sensors. These two systems are compatible, as the same spectrometer can be interfaced with appropriate accessory items for the two respective measurements. Thus, the systems are very cost effective for implementing these two measurements.

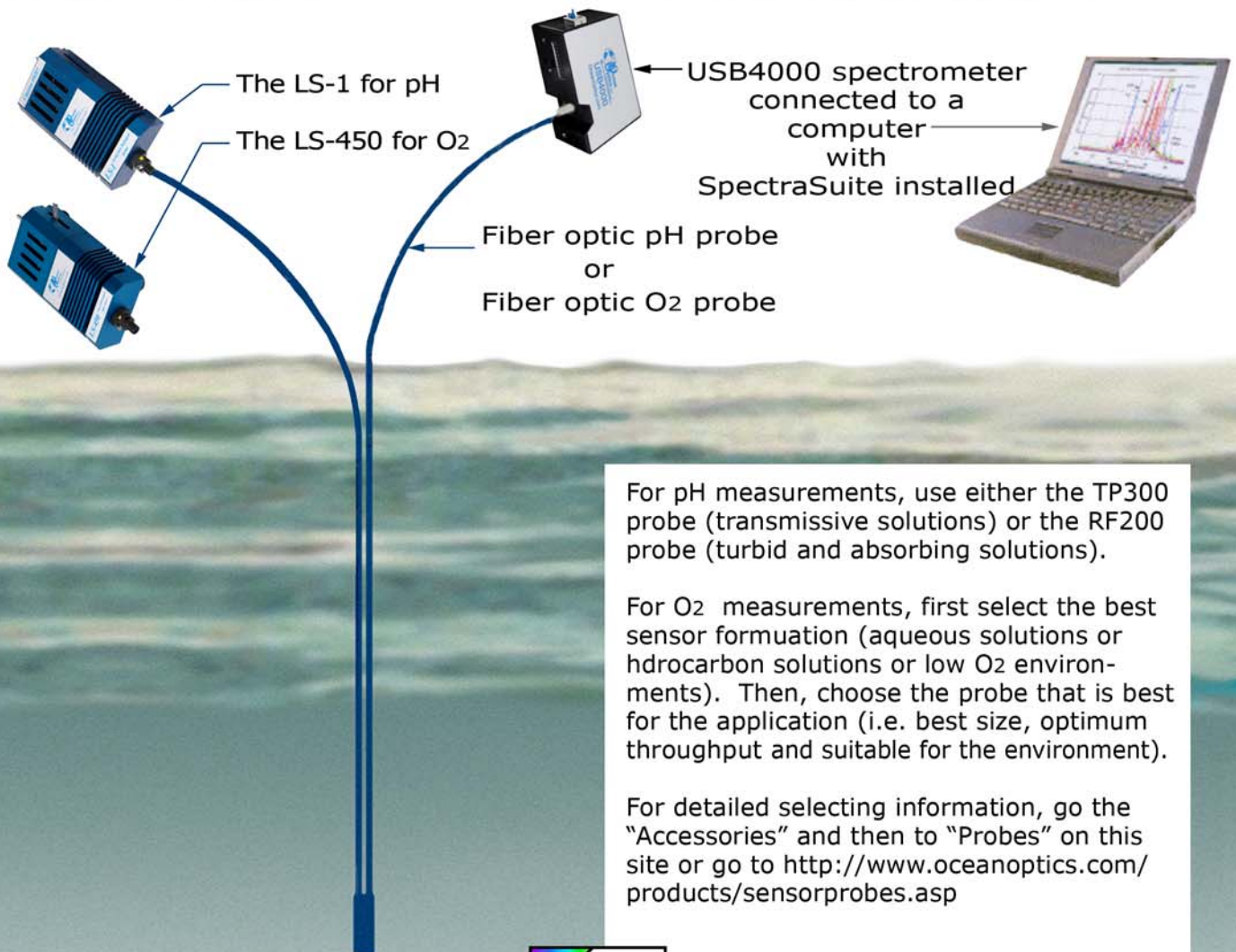
The basic core of the systems is a miniature fiber optic spectrometer for the mid spectral region.

For pH measurements, an immobilized film probe with a visible light source is connected to a spectrometer.

For oxygen measurements, a "Foxy" optical O₂ sensor and a blue LED light source may be used with the spectrometer.

These two measurements require the specific probes. For a measurement, an arm of the relevant probe is connected to the specific light source and the other arm goes to the sensing spectrometer. Operation is controlled and data acquired by a computer connection as shown.

The SpectraSuite software is suggested for controlling the operations.



For pH measurements, use either the TP300 probe (transmissive solutions) or the RF200 probe (turbid and absorbing solutions).

For O₂ measurements, first select the best sensor formation (aqueous solutions or hydrocarbon solutions or low O₂ environments). Then, choose the probe that is best for the application (i.e. best size, optimum throughput and suitable for the environment).

For detailed selecting information, go the "Accessories" and then to "Probes" on this site or go to <http://www.oceanoptics.com/products/sensorprobes.asp>



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