

Dissolved oxygen in wine



The most effective and economic solution for oxygen control in oenology.

This sector does not need the sophisticated and expensive equipment used in electrical and nuclear power stations.

The assembly is based on the OXI 45 DL and a "dedicated kit" with the necessary accessories.

It provides stable and precise readings in less than 2 minutes, with resolution of 0.01 mg/l.

Allows the monitoring of micro-oxygenation, bottling and storage.

The flow chamber and the bottle "sampler" make the measurement possible without air contamination.

The sensor requires the minimum maintenance. An operator can do it in 2 minutes.

In addition, CRISON offers professional technical support at any time. We are always near you.

Portable instrument

OXI 45 DL for D.O. measurements in wine

Accurate measurements, in a closed circuit, in a laboratory or in winery.

Short analysis time.

With small sample consumption.

Key features:

■ Mesures d'O.D. simples et rapides.

Le temps de mesure est approx. 2 minutes.
200 ml sample is sufficient.

■ Automatic calibration.

Quick and easy calibration without need to take out the electrode from the measuring chamber.

■ Data Logger.

Data storage for 200 samples. Data visualization on the instrument's display.

■ Measuring chamber.

Fast response sensor with small dependence on flow.
Performing measurement inside the chamber avoids the contact with the atmospheric oxygen.

■ Direct measurement in a tank.

The connection of the measuring chamber to the tank allow sample flow by gravity. No need of additional accessories.

■ Measurement in a bottle.

It is very important to avoid the contact with the air when the wine passes from the bottle to the measuring chamber. The CRISON "sampler" facilitates the task. The wine flows through the chamber due to the pressure made by a gas (nitrogen or air) entering into the bottle (head space).

■ Pump, optional.

It makes easy the accurate D.O. measurement without need to use inert gas. The air is introduced in the upper part of the bottle without contamination of the sample taken from the lower part.

Description

Carry case.

Containing instrument, sensor and all necessary accessories for a correct measurement.

D.O. electrode

Measuring chamber.

LCD Display.

Allways on screen
D.O. values in mg/l and °C.

Indestructible display.

Industrial use.

Sampler.

It allows the wine extraction from the bottle. No contact with the air.

6-4 reduction tube-to-tube joints.



Spare membranes

Maintenance solutions

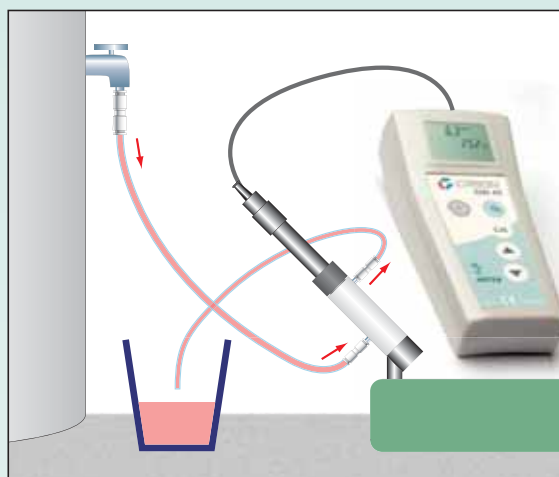
ABS casing
IP 65 waterproofing.

Dissolved Oxygen measurement

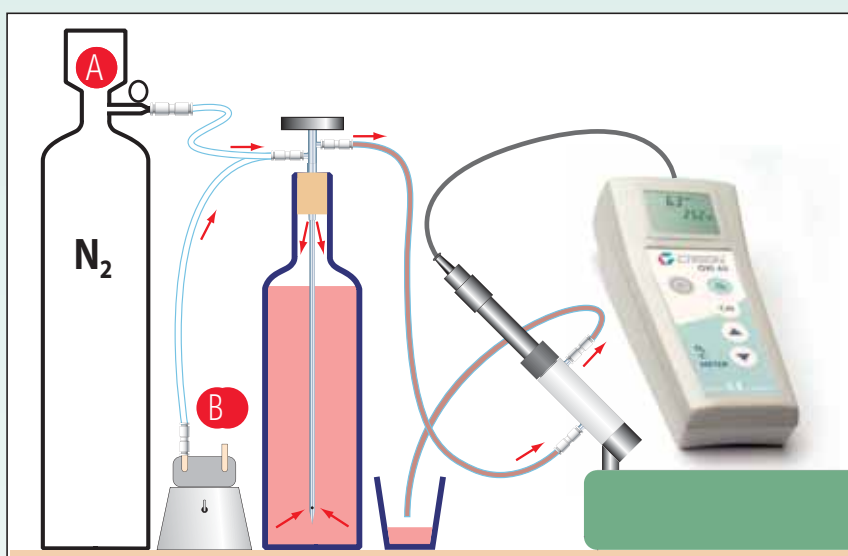
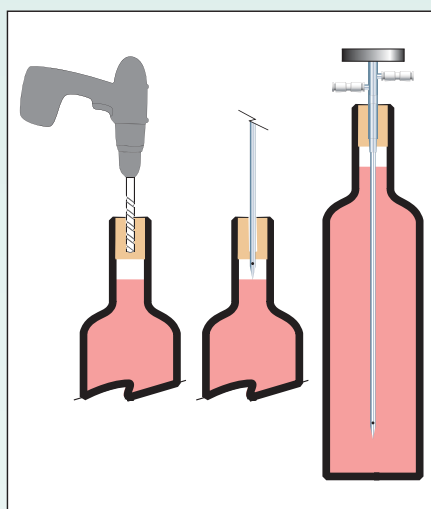
The D.O. measurement requires sample renewal in contact with the membrane. The direct introduction of the sensor into the bottle or in the tank may give erroneous result due to the lack of flow or sample contamination when it is stirred. The measuring chamber makes easy the wine circulation at constant flow and avoids the contact with air.

Measurements in tank. Procedure.

- Connect the measuring chamber directly to the tank.
- When opening the tap, the sample flow through the chamber by gravity.
- Stable, accurate and reproducible reading is obtained in two minutes .



Measurement in bottle. Procedure.



- Perforate the stopper.
- Plunge the sampler tube in the stopper and connect the tubes as shown on the picture.
- For the wine impulsion, you can use nitrogen bottle **A** or a pump **B**.
- Two minutes wine circulation through the chamber is enough to obtain stable, accurate and reproducible reading.

Specifications

OXI 45 DL

Measuring range	Dissolved oxygen: 0...199.9 % and 200...600 %. 0.00...19.99 mg/l and 20.0...60.0 mg/l. Temperature: 0...50 °C .
Display	Liquid crystal display with pictograms.
Connector	DIN, IP 67 protection.
Power supply	Two 1,5 V, type AA batteries, autonomy of over 350 h.
Electrical safety	Meets UNE-EN 61010, UNE-EN 61010-1/A2.
E.M.C. (Electromagnetic compatibility)	Meets CE, UNE-EN 61326, EN 61326/A1/A2.
Ambient conditions	Temperature: operating 0...50 °C. Storage and transport: -15...65 °C. Relative humidity < 80 %.
Enclosure	Casing material, ABS. Degree of protection, IP 65.
Physical parameters	Weight 200 g, Dimensions: 160 x 75 x 50 mm.

CellOx D.O. electrode

Measuring range	0...20 mg/l of O ₂ with resolution of 0.01 mg/l / ppm. And 20...50 mg/l, with resolution of 0.1 mg/l / ppm.
Working conditions	Temperature, 0...50 °C. Maximum pressure, 6 bar. Minimum flow speed, 10 cm / s.

Ordering information

Code	Description
45 20	Portable oxymeter OXI 45 DL, complete with CellOx electrode, measuring chamber, "sampler" tube, tubes and connections.
86 92	Pump for air impulsion into the bottle.

Other interesting instruments for œnology



pH, TA and SO₂ analyzers, with or without automatic sampler changer.

Athorised CRISON dealer:

Instruments developed and manufactured in Spain by:

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