

The OxyGuard CO2 Probe



Probe



One beaker can be used for more than one probe

The OxyGuard CO2 probe is a reliable and easy to use probe that measures the free dissolved CO2. With this technology, it is not affected by carbonates or other dissolved substances in the water.

PRINCIPLE OF OPERATION

The probe measures the carbon dioxide pressure in the water and needs no regulation of the pH. It is a direct and simple measurement. The probe range is 0-50 mg/l (available with other ranges). Before use the probe must be calibrated using a mixture of water and calibration chemicals in a special calibration beaker with stirrer. The calibration accessories - beaker with stirrer, chemicals etc. - are ordered separately.

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SPECIFICATION

Size: Probe: 40 mm dia. x 140 mm. Cable length 7 m.

Calibration beaker: 65 mm dia. x 260 mm.

Weight: Probe with cable 0.6 kg. Calibration accessories 1.0 kg.

Supply: 24 V DC

Range: 0 - 50 mg/l dissolved carbon dioxide.

Operating conditions: 3-35°C

Accuracy: Depends on calibration. Practical accuracy up to +/- 1 mg/l.

Response time: Typically 5 minutes at 20°C depending on flow velocity past the probe.

In still water up to 15 minutes.

Flow requirements: The instrument does not consume carbon dioxide for its measurement, but a certain flow is necessary to ensure that the sensing element of the probe is in equilibrium with the surrounding water and to avoid "spot" measurements.

Communications protocol: P-Net

ORDERING INFORMATION:

G10PMP: OxyGuard CO2 Probe - with 7 m cable.

G10CALPM: Calibration accessories; Beaker with stirrer & magnet, 75 g pH conditioner, dosing spoon, 100 ml calibration solution, dosing syringe, adjustment screwdriver, battery pack, charger 100 - 240 V AC. These calibration accessories can be used for more than one CO2 OxyGuard Probe.

G10CS: 100 ml calibration solution.

G10CC: 75 g pH conditioner for calibration.

G10REPMP: CO2 Probe exchange (About every 3 years the probe needs to be changed).

G10STB: Battery Pack, 12 VDC, for CO2 calibration beaker (required if the probe is placed far away from the Marlin/Pacific).

G10PMP The OxyGuard CO2 Probe GB 2022 07
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