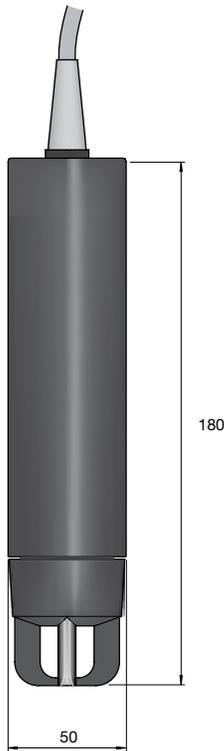
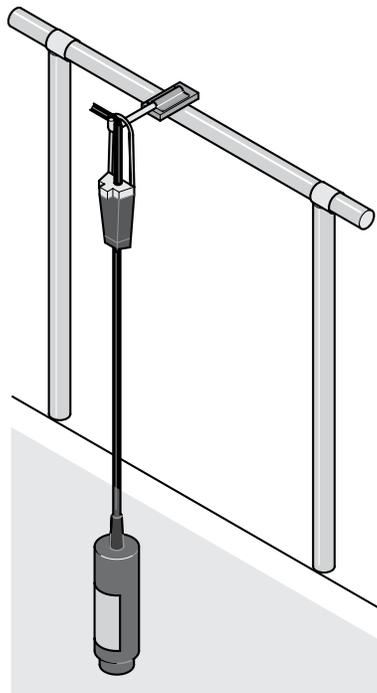


# ProMinent® DULCOTEST® Sensors

## Dissolved Oxygen Sensors



pk\_6\_050\_1



pk\_6\_011

The measured variable “dissolved oxygen” gives the quantity of the gaseous physical dissolved oxygen in its aqueous phase in mg/l (ppm).

The “dissolved oxygen” is thereby an important parameter for controlling the quality of surface water and water which needs to be oxygenated for use in aqua culture and aqua zoos. The dissolved oxygen is also used to control processes in sewage plants and waterworks.

The following sensors are assigned to the different applications and can be supplied separately as 4-20 mA-transmitters to central controllers or together with the D1C as a stand alone solution (measured variable: “dissolved oxygen”: X. s. chapter 5). **DO 1-mA**

|                                 |   |
|---------------------------------|---|
| Measured variable:              | <b>dissolved oxygen</b>   |
| Calibration:                    | of oxygen in air  |
| Measurement range:              | 0-20 mg/l   |
| Reproducibility of measurement: | ± 0.5 % of measurement limit value  |
| Temp. range:                    | 32-122 °F (0 -50 °C)  |
| Max. pressure:                  | 14.5 psi (1 bar)  |
| Velocity of sample water:       | minimum: 0.16 ft./s (0.05 m/s)  |
| Enclosure rating:               | IP 68   |
| Power supply:                   | 12-30 V DC  |
| Output signal:                  | 4-20 mA. Measurement range calibrated, temperature corrected and electrically isolated  |
| Process integration:            | <ul style="list-style-type: none"> <li>a) immersion, suspended on cable with or without mountain bracket for cable (see accessories. section. 6.5.5)</li> <li>b) Immersion of immersion pipe                             <ul style="list-style-type: none"> <li>1. Immersion pipe with 1.97“ (50 mm) outside diameter and 1-1/4“ (31.75 mm ) internal thread (provided by the customer). Connection via immersion pipe adapter (see accessories, section. 6.5.5).</li> <li>2. PVC immersion pipe with 1.97“ (50 mm) outside diameter (provided by the customer). Connection via standard PVC adhesive union (provided by the customer).</li> </ul> </li> <li>c) In-flow operation to order</li> </ul> |

### Typical applications

Fish and shrimp farming. Conditioning of water in large aquaria in zoological systems. Control of oxygen input in waterworks  
Appraisal of the biological status of surface waters

DO 1-mA-20 ppm

**Part No.** 1020532