

## OXYGEN CONTROLLER CO-421

**CO-421** is a stationary device used for continuous measurements of concentration of oxygen concentration in clear water, sewage or in air and temperature measurements. The measurement may be made in % or in mg/l in water and in % in air.

The controller is available in three versions:

1. Equipped with two relays to control valves and signalisation system.
2. Equipped with 0 ÷ 20 mA current loop.
3. Equipped with RS-232 output with a software to collect the data on a PC. Optionally, the connection may be made by USB output with use of RS-232 – USB converter (additional equipment).

### Characteristic features:

- Equipped with backlit LCD display.
- Has an automatic temperature compensation system.
- Enables 2-point calibration of the oxygen sensor in 0% and 100% concentration for measurements in water and in 20.9% concentration in air.
- It is possible to calibrate it without the need of disconnecting the outputs.
- Periodically, the sensor should be calibrated and manually cleaned.
- Powered by 12 V adapter.
- 24 months of warranty, Polish product.
- High accuracy at affordable price.

When ordering, the kind of measured medium and measurement unit should be specified – water or air and % or mg/l.



Depending on usage, we recommend galvanic oxygen sensors: **COG-1**, **COG-1t** with built-in temperature sensor or **COG-2** sensor with weight.

The sensors are mounted in immersible or flow heads, chosen depending on the measurement conditions. **COG-2** may be used for measurements in water or sewage without the head.



*COG-2 oxygen sensor*

## TECHNICAL DATA

Function	Oxygen %	Oxygen %	Oxygen mg/l	Temperature
Environment	air	water	water	water or air
Range	0 ÷ 100 %	0 ÷ 199.9 %	0 ÷ 19.99 mg/l	-50.0 ÷ 199.9 °C
Accuracy (± 1 digit)	± 2 %*	± 2 %*	± 0.2 mg/l*	± 1 °C with Pt-1000B probe
Temperature compensation	-	-	0 ÷ 40 °C	-
Air pressure range	800 , 1100 hPa			
Constant values for measurement in mg/l	Air pressure: 1013 hPa, salinity: 0%			
Dimensions (mm) / weight	L=149 W=82 H=22 / 210 g			
Power supply	12 V / 100 mA power adapter			
Relays' parameters	2A/250VAC/30VDC			
Isolation class	according to PN-83/T-06500			
Radioelectric interference	N level			

\* With oxygen sensor, at calibration temperature

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