

## OXYGEN CONTROLLER CO-421

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

**The controller is available in two versions:**

1. Equipped with two relays to control valves and signalisation system.
2. Equipped with 0 ÷ 20 mA current loop.

**Characteristic features:**

- Equipped with a backlit LCD display.
- The device has an automatic temperature compensation system.
- The device enables 2-point calibration of the oxygen sensor in 0% and 100%.
- It is possible to calibrate it without the need of disconnecting the outputs.
- In case of measurements in mg/l possibility of introducing the salinity and pressure values influencing the measurement (measured with other meters).
- Internal data-logger (8000 data sets) for data collecting and transfer to a PC.
- Periodically, the sensor should be calibrated and manually cleaned.
- Powered by 12 V adapter.
- 24 months of warranty.
- Good accuracy at an affordable price.

When ordering, the version and unit of measurement should be specified  
– relays or current loop and % or mg/l.



The meter enables storing of 8000 results. The built-in memory allows you to remember the results with a set time interval: the shortest 1 minute, and the next possibilities : 2, 5, 10, 15, 30, 60 minutes. When the memory is full, the oldest result is deleted and a new one is added. The results can be transferred to a computer via USB. The delivered in the set computer software allows to transfer the results of the measured function and temperature with the date and time of recording.

Depending on the place and type of measurements we recommend galvanic oxygen sensors: **COG-1**, **COG-1t** with built-in temperature sensor or **COG-2** sensor with built in temperature sensor and weight for immersion.

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.



#### TECHNICAL DATA

Function	O <sub>2</sub> (%)	O <sub>2</sub> (mg/l)	Temperature
Range	0 ÷ 199.9 %	0 ÷ 19.99 mg/l	-50.0 ÷ 199.9 °C
Accuracy	±2%*	±0.2 mg/l*	±1 °C with Pt-1000 probe
Temperature compensation	0 ÷ 40 °C	0 ÷ 40 °C	-
Memory	8000 data sets collected with chosen time interval		
Dimensions (mm) / weight	L=149 W=82 H=22 / 210 g		
Power supply	12V power adapter		
Relays' parameters	2A/250VAC/30VDC		
Isolation class	according to PN-83/T-06500		
Radioelectric interference	N level		
Temperature sensor	Pt-1000		

\* with oxygen sensor, at calibration temperature

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