

CONDUCTIVITY CONTROLLER CC-421

CC-421 is a stationary device used for continuous conductivity and temperature measurements in clear water or sewage.

The device is available in two versions

- equipped with two relays;
- equipped with $0 \div 20 \text{ mA}$ or $4 \div 20 \text{ mA}$ current loop;

The device enables 1-point calibration of the measuring cell by entering the constant K value or in standard solution with value set in the device's memory. It is possible to calibrate it without the need of disconnecting the outputs.



Characteristic features:

- The meter is equipped with a backlit LCD display.
- 4 sub-ranges switched automatically.
- Possibility to choose between two versions of the device: conductivity or salinity measurement version (converted to NaCl – up to 177.9 g/l).
- Converting conductivity into salinity based on the actual characteristics, not on a constant coefficient.
- Automatic temperature compensation.
- Constant temperature α coefficient – 2 %/°C.
- Reference temperature: 25 °C.
- Internal data-logger (8000 data sets) for data collecting and transfer to a PC.
- With special hanger for mounting on the wall.
- 24 months of warranty, quick warranty and after-warranty service.

The meter may collect up to 8000 data sets including measured result, measured temperature, time and date. The data may be collected with chosen time interval. The available values of the interval are 1, 2, 5, 10, 15, 30 and 60 minutes.

If the memory capacity is used up the oldest result is deleted and replaced with a new one. The collected or actual results may be transferred to a PC with use of the USB connector. The delivered in set software enables the transmission.

The controller may cooperate with **GXZ-1t** immersible head or with **GXP-1t** flow head and **GXP-01M** head for measurements in outflow. The cells are selected depending on the measurement conditions.

TECHNICAL DATA

Function	Conductivity	Salinity	Temperature
Range	0 ÷ 199.9 mS/cm, 4 subranges - auto-range	NaCl 0 ÷ 177.9 g/l	-50.0 ÷ 199.9 °C
Accuracy (± 1 digit)	±0.25 %*	±2.0%*	±0.1 °C**
Temp. compensation	-5 ÷ 70 °C	-5 ÷ 70 °C	-
α coefficient	constant 2%/ °C	constant 2%/ °C	-
K constants	0.01 ÷ 1.999 cm ⁻¹		
Temperature sensor	Pt-1000		
Memory	8000 data sets collected with chosen time interval		
Relays' parameters	2A/250VAC/30VDC		
Isolation class	according to PN-83/T-06500		
Radioelectric interference	N level		
Power supply	12 V / 100 mA power adapter		
Dimensions (mm)	L = 149; W = 82; H = 22		
Weight	220 g		

*The accuracy of the meter only.

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In the range 0 ÷ 100 °C the acceptable error of the probe with Pt-1000B resistor: ±0.8 °C, with Pt-1000A resistor: ±0.35 °C.

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