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 three versions
- equipped with two relays;
- equipped with 0 ÷ 20 mA or 4 ÷ 20 mA current loop;
- equipped with RS-232 output to connect with a computer.

Optionally, the connection may be made by USB output with use of RS to USB converter (additional equipment).
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 %/ºC.

- Reference temperature: 25 ºC.
- 24 months of warranty, quick warranty and after-warranty service.

The controller may cooperate with **GXZ-1t** immersible head or with **GXP-1t** flow head and **GXP-01** 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 - autorange	NaCl 0 ÷ 177.9 g/l	-50.0 ÷199.9 ºC
Accuracy (± 1 digit)	±0.25 %*	±2.0%*	±0.1 ºC**
Temp. compensation	-5 ÷ 70 ºC	-5 ÷ 70 ºC	-
α coefficient	constant 2%/ ºC	constant 2%/ ºC	-
K constans	0.010 ÷ 1.999 cm^{-1}		
Temperature sensor	Pt-1000		
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.

**The accuracy of the meter only. The total error includes the meters and probe's accuracy. In the range 0 ÷100 ºC the acceptable error of the probe with Pt-1000B resistor: ±0,8 ^{0}C, with Pt-1000A resistor: ±0,35 ^{0}C.

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