

## SA-7101 Sodium analyzer industrial

Sodium analyzer SA-7101 (analyzer) is designed for measuring activity level (pNa) and mass concentration (cNa) of sodium ions in chemically demineralized water, high pressure boilers steam condensate and turbines and also for controlling of quality of H<sup>+</sup> cation-exchange filters.

The analyzer also provides a measurement of the temperature of the analyzed fluid and the degree of activity of hydrogen ions (pH),

characterizing the effect of the automatic alkalizing the analysed liquid by reagent in cell.

The analyzer provides digital indication and graphic display of the measured parameters, they converting to standardized current output signals, data exchange with PC via interface RS-485, alarm and archiving of measured parameters.

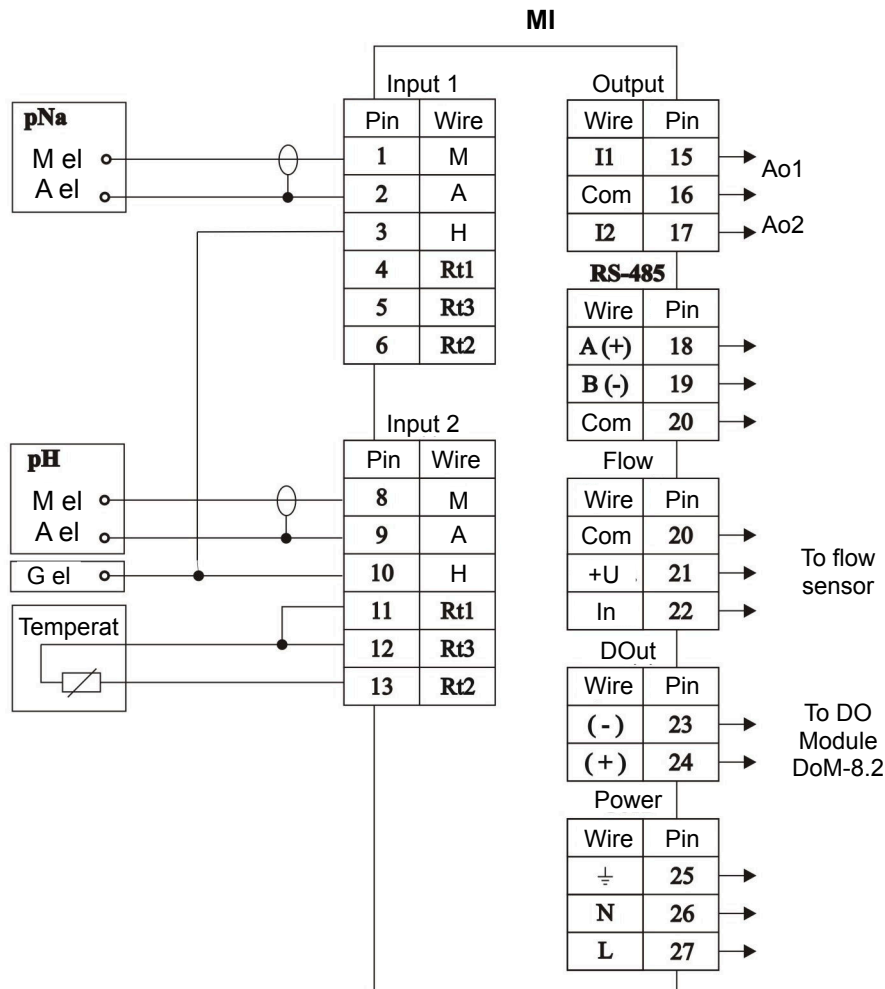
The measuring instrument body is made of impact-resistant polystyrene and is placed on the hydropanel HP-7101 made of stainless steel.

The analyzer is used to control the process of chemical water treatment in power engineering: heat power plants, NPP and process water treatment plants.

### BASIC TECHNICAL SPECIFICATION AND PARAMETERS

pNa measuring range.....	(2,36... 8,36) pNa
cNa measuring range.....	(0,1...100000) µg/dm <sup>3</sup>
pH measuring range.....	(0...14) pH
Analyzed liquid temperature range .....	(10... 50)°C
Liquid flow rate measuring range.....	(0,9...48) l/h
Basic absolute error	
measuring pNa.....	±0.05 pNa
measuring pH.....	±0.1 pH
measuring temperature.....	±0.3°C
Output signals:	
- two current, programmable.....	(0..5), (0..20), (4..20) mA
- interface.....	RS-485, ModBus RTU data communications protocol
- eight discrete .....	switching over dry contact, 240V, 3A
Archiving interval.....	1 sec
Archiving time.....	up to 1 year
Indicator type.....	LCD graphics
Power supply .....	~(100..240)V, (50..60)Hz
Power consumption.....	15 VA
Dust and water protection MI.....	IP65
Climatic version .....	T=(+5...+50)°C
Resistance to mechanical influences.....	N2
Weight.....	max 1,6 kg

## MI EXTERNAL WIRING



MI — measuring instrument; Temperat — temperature sensor of pH electrode; pH — combined pH electrode; pNa — measuring pNa electrode; G el — grounding electrode

## ACCESSORIES

- pNa-electrode, combined, NAB1502;
- pH-electrode, combined, ASP3151;
- submersible of flowing holder (look part «Holders for sensors»);
- hydropanel HP-7101.

## OVERALL AND MOUNTING DIMENSIONS

The overall and mounting dimensions of the analyzer are given in the description of pH-4122.P