



DO-5112 Dissolved oxygen analyzer optical two-channel



Dual-channel optical analyzer of dissolved oxygen is designed for measuring dissolved oxygen concentration and temperature of the analyzed liquid, with digital and graphical indication of measured parameters, with alarms when the measured parameter outside specified values, and to converting the measured value into a unified output DC signal and communication with the computer via digital interface RS-485, and archiving measured values.

The dual channel analyzer is a measurement tool consisting of one or two optical sensors, with fluorescentes feelings-sensitive surface, and the measuring device panel or wall mounting.

The analyzer can be equipped with a lot type of holders . The sensor can be equipped with the cleaning cup to auto-clean it by air flow.

Application field analyzer - automated systems of management, control and regulation of technological

processes in domestic and industrial water purification systems, for quality control of drinking water at the enterprises of aquaculture and other industries.

Using the indicator and 4-buttons control panel, the user can view and modify configuration settings of the analyzer:

- assignment of units, number of channels, viewing in GUI mode (trends);
- enable and configure the program's settings, filter;
- view and change setpoints, hysteresis, delay and logic relays alarm;
- the range of output current.

Advantages of optical sensors of dissolved oxygen before membrane type:

- regular calibration and maintenance is not required;
- there are no requirements to the flow of the measured liquid;
- low sensitivity to contamination;
- Low response time.

BASIC TECHNICAL SPECIFICATION AND PARAMETERS

Dissolved oxygen concentration measuring ranges.....	(0..20,00) mg/dm ³
Sensitivity to the measuring range.....	(0..200) %
Measurement range of the measuring liquid flow rate.....	(±0,5) %
Analyzed liquid temperature range	(0,9..48) l/h
Reaction time 95%.....	(0..+45);(-5..+85..+140(shortly))°C/depend from sensor type
Termocompensation type.....	<60sec
Setting parameters.....	automatic
Compensating for changes in atmospheric pressure.....	pressure, salinity, humidity
Salinity compensation.....	manual
Calibration.....	with manual entry
Maximum pressure.....	by atmospheric air
Type of MI.....	1 bar at 25°C
Type of MI indicator.....	panel-mounting, wall-mounting
Instrument to sensor cable length.....	graphic LCD
Output signals:	max 10 m
-two analog, programmable.....	(0..5), (0..20) mA or (4..20) mA
-interface.....	RS-485 ModBus RTU communication protocol
-four discrete.....	switching over dry contact, 240 V, 3A
Archiving interval.....	1 sec
Archiving time.....	max 1 year
Power supply voltage.....	~(100..240)V, (50..60)Hz
Power consumption.....	max 15VA
MI enclosure material.....	ABS plastic, aluminum alloy
Sensor enclosure material.....	PVC
MI dust and water protection.....	IP65 (front panel)
Sensor dust and water protection.....	IP68
MI climatic version.....	T=(+5..+50) °C

Dissolved oxygen analysers > DO-5112

Sensor climatic version: T=(+5..+50); (-5..+85..+140(shortly)) °C/depend from sensor type
 Resistance to mechanical influences V2
 MI weight max 1,6 kg
 Sensor weight max 0,6 kg

EXTERNAL WIRING

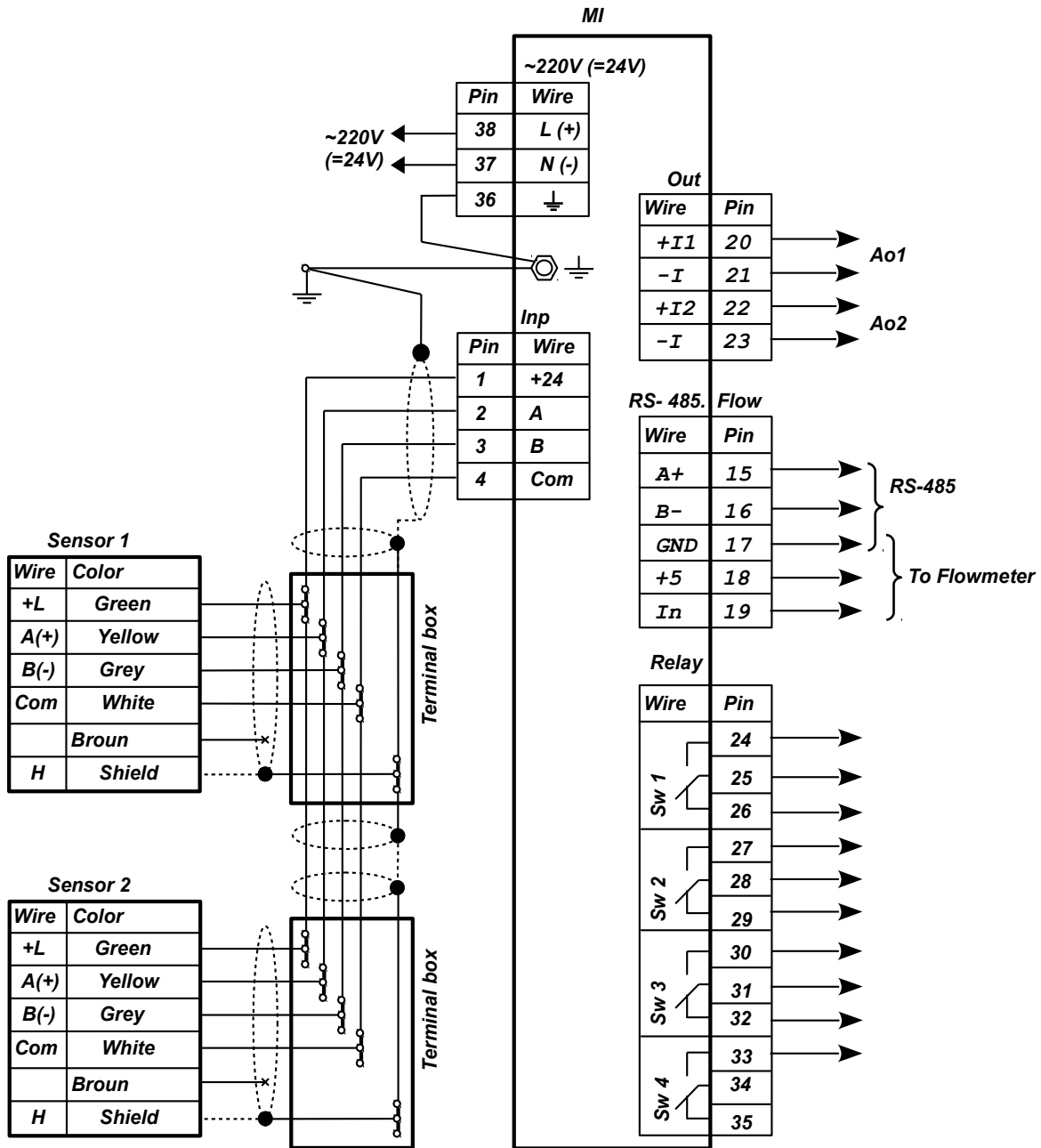


Figure 1 External connections panel-mounted DO-5112

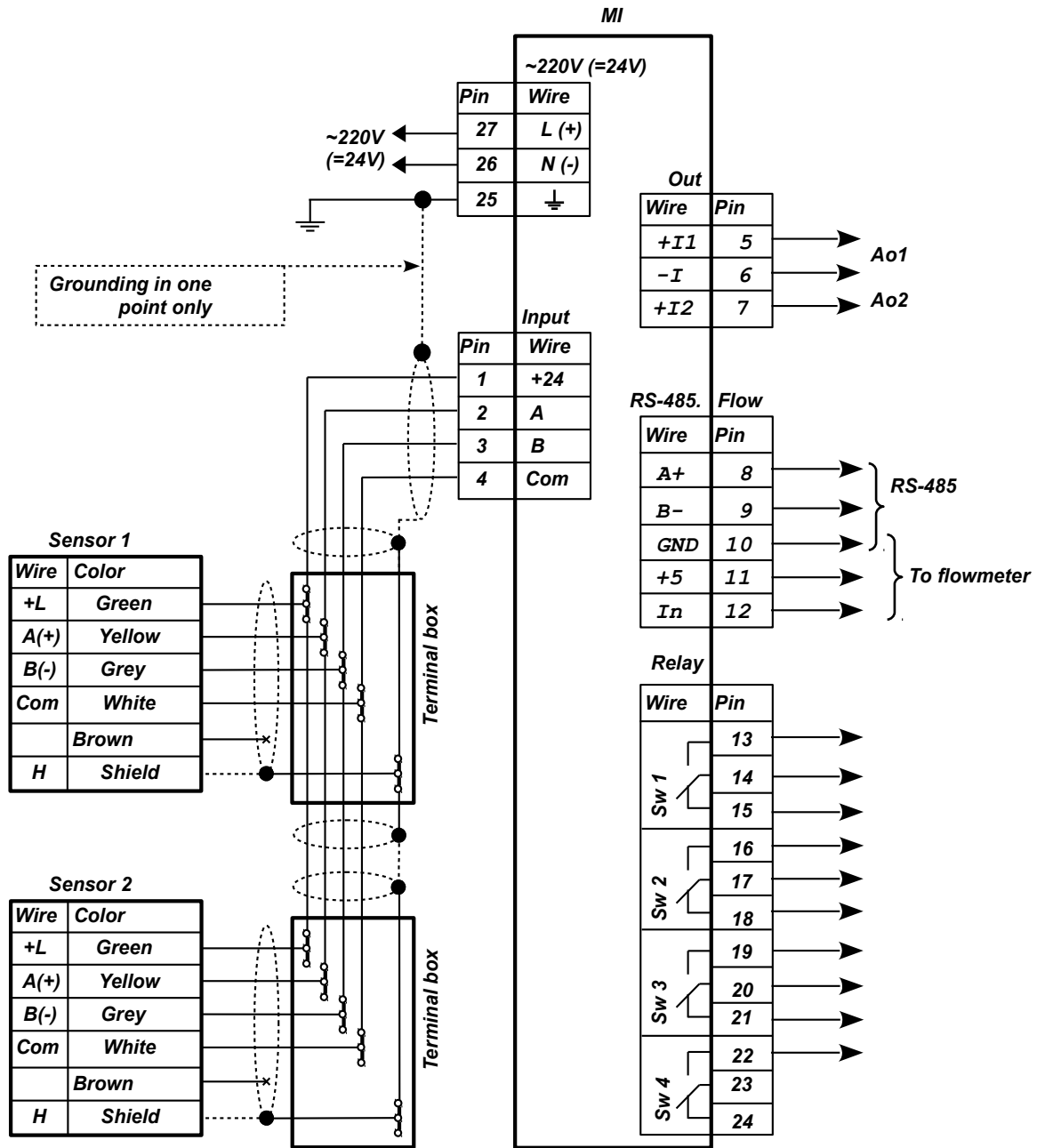


Figure 2 External connections wall-mounted DO-5112

ODERALL AND MOUNTING DIMENSIONS

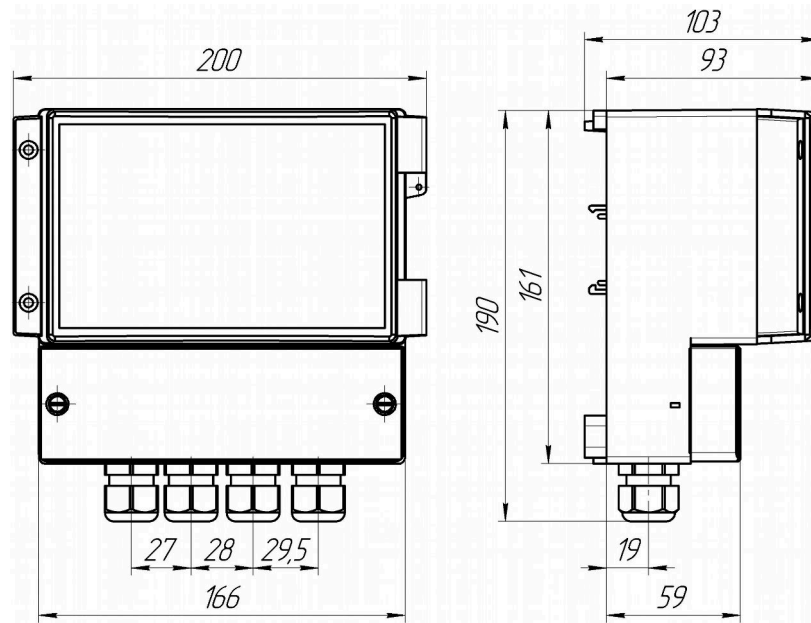


Figure 3 Wall-mounting MI

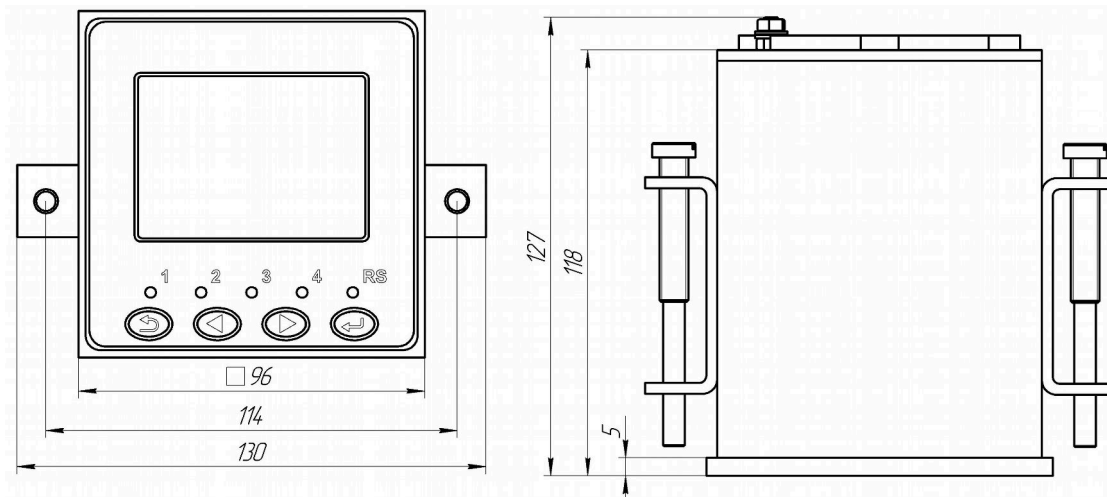


Figure 4 Panel-mounting MI

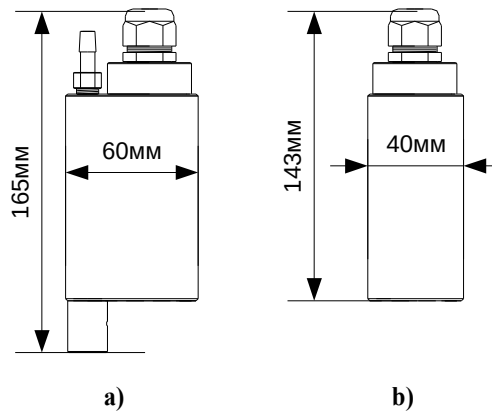


Figure 5 Dissolved oxygen sensor (fluorescent)
a) submersible; b) flowing

ACCESSORIES

- optical sensor of dissolved oxygen;
- submersible or flowing holder for sensor mounting.

ORDER REFERENCE CODE:

DO-5112.	x.	x-	xxxx
			xxxx Upper limit of measuring range
	Housing type		
	P Panel-mounting		
	W Wall-mounting		
Number of sensors:			
1 one			
2 two			

Example: **DO-5112.P-20mg/dm³** «Dissolved oxygen analyzer DO-5112 with two sensors, panel-mounting MI; measure range (0...20) mg/dm³ »