

pH-4122.P pH/ORP-meter industrial two-channel



Industrial two-channel pH-meter pH-4122.P is designed for measuring of the hydrogen ions activity (pH) or redox potential (ORP) and temperature (t) of the analyzed liquid in one or two channels.

pH-meter provides a digital display and graphical display of the measured values of pH, ORP and temperature, their proportional conversion to standard analog output DC signals, data exchange with a computer

via digital interface RS-485 and archiving of the measured parameters, as well signaling the exit of measured parameters, including temperature, beyond the specified values. pH-meter can be equipped with a hydraulic panel HP 4131.2.

Scope of application: heat power industry, chemical, petrochemical, food processing, brewering and other industries.

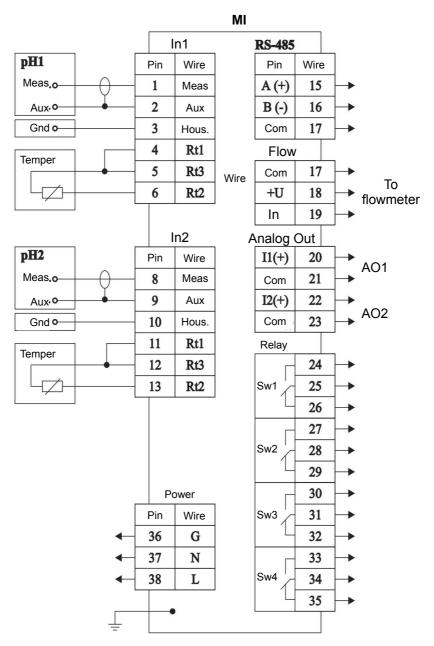
BASIC TECHNICAL SPECIFICATION AND PARAMETERS	
Measuring channels quantity	1, 2
Parameters being measured in every channel	pH or ORP and temperature
pH measuring range	
ORP measuring range	(-1500+1500) mV
Analyzed liquid temperature range	look section Electrodes: Combined pH and ORP
Analyzed liquid flow range	(0,948) l/h
Type of MI body	
Type of MI indicator	LCD graphics
Electrode system (ES)	combination pH electrode, combination ORP-electrode
Basic absolute error value limit:	
- measuring pH complete with ES	± 0,05 pH
- measuring ORP	±2 mV
- measuring temperature	± 0,5°C
Length of the cable to the electrode	usual 4m (max 25m - depend from cable type)
Output signals parameters:	
-two analog, programmable	(05), (020) or (420) mA
-one interface	RS-485, ModBus RTU data communications protocol
-4 discrete (for wall mount body)	switching over dry contact, 240V, 3A
-eight discrete (with module DoM-8.2)	switching over dry contact, 240V, 3A
-Self cleaning or self calibrating function	switching over dry contact, 240V, 3A
-Self check	switching over dry contact, 240V, 3A
-Hold mode under calibrating or cleaning	switching over dry contact, 240V, 3A
Setting Alarm range for pH and temperature	in the whole measuring range
Archiving interval	
Archiving time (range)	up to 1 year
Power supply voltage	
Power consumption	max 15VA
Climatic version:	
Dust and water protection:	
Resistance to mechanical influences	N2
Enclosure material:	
Weight	max 1,6kg
ORDER REFERENCE CODE:	

To place an order, use the order reference in the description of pH-4101 and the questionnaire.

ACCESSORIES

- combination electrode (see section "Combination pH and ORP electrodes»);
- holders for pH-electrodes installation (see section "Holders for sensors");
- hydraulic panel HP4131;
- pH-metric cable.

EXTERNAL WIRING



MI — measuring instrument;

Meas - measuring electrode;

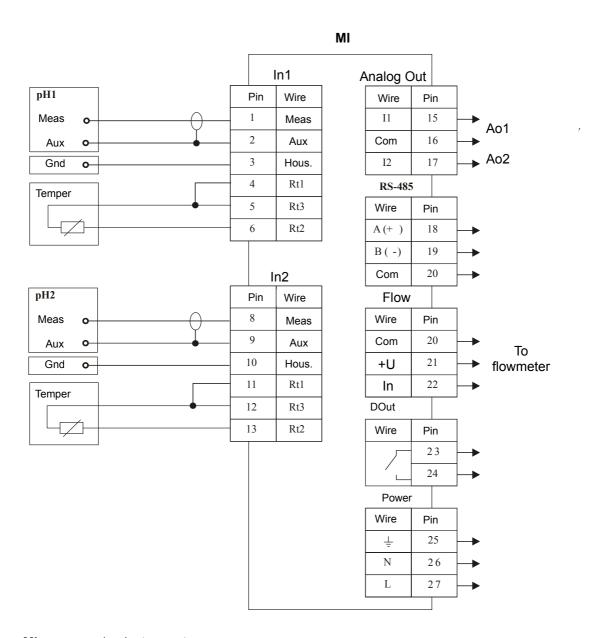
Aux — auxillary electrode;

Temper — temperature sensor;

Gnd — grounding electrode (possible use the holder)

pH1,pH2 — combine electrodes, also can be used separated Measuring and Aux electrodes

Figure 1. Scheme of external connections of a panel-mounting version of pH meter



MI — measuring instrument;

Meas - measuring electrode;

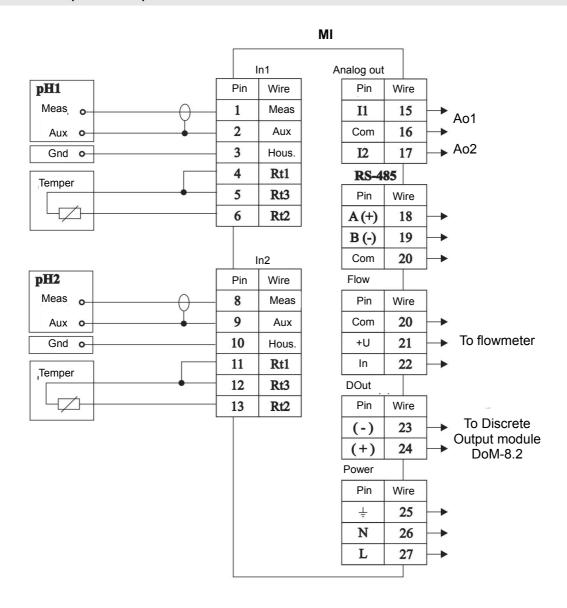
Aux — auxillary electrode;

Temper — temperature sensor;

Gnd — grounding electrode (possible use the holder)

pH1,pH2 — combine electrodes, also can be used separated Measuring and Aux electrodes

Figure 2. Scheme of external connections of a wall-mounting version of pH meter with one discrete output



MI — measuring instrument;

Meas - measuring electrode;

Aux — auxillary electrode;

Temper — temperature sensor;

Gnd — grounding electrode (possible use the holder)

pH1,pH2 — combine electrodes, also can be used separated Measuring and Aux electrodes

Figure 3. Scheme of external connections of a wall-mounting version of pH meter with external output module

OVERALL AND ENCLOSURE DIMENSIONS

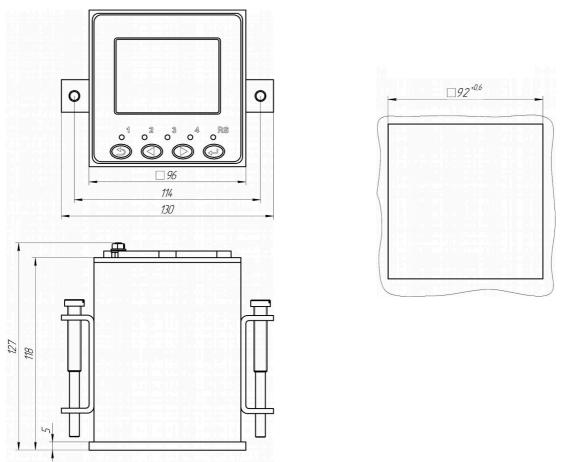


Figure 4. Measuring instrument panel version.

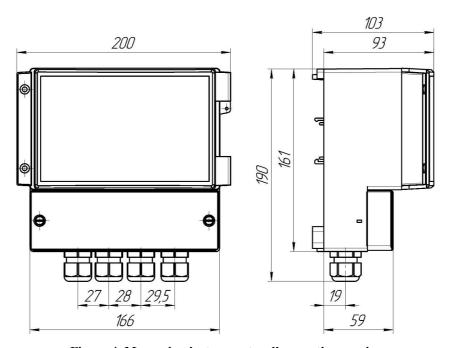


Figure 4. Measuring instrument wall-mounting version.