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MOSTEC

pH/mV-Controller Type M9920



Technical description

The pH/rH(mV)-controller type M9920 has been developed especially for applications which, until now, could not be monitored and controlled automatically due to cost. But now, the new M9920 offer these features as standard.

The two-point controller is a basically simple device, consisting of an electrometer amplifier and two floating change-over contacts which are electronically adjustable over the entire measuring range. The instrument requires a 115-230V supply and is used as a simple indicator by connecting electrodes. It has automatic temperature compensation with a Pt-100 platinum sensor and automatic pH-electrode calibration.

The galvanically isolated, programmable signal current output is connected to a remote display, recorder, computer, or any other desirable data sampling device. By using the alarm contacts, the controller activates dosing valves, pumps, alarm devices, etc. The heavy duty switching relays withstands currents up to 6A; however, for longer contact life, the current should be limited

Typical applications for the M9920 controller:

- Simple monitoring with alarm annunciation when the preset threshold settings are exceeded.
- Non-critical controlling in water purification and waste water systems.
- Controller for water conditioning plants or swimming pools.
- Routine monitoring for environmental and pollution control etc.

The choice of probe electrodes for the controllers is not critical, but for each application the appropriate electrode must be chosen. Mostec is willing to evaluate and discuss any special requirements or customizing, independent of the amount of items to be purchased. Please contact us for any additional information or custom specific modification of the instruments.

Technical Data:

Measuring range:	0,00 to 14,00pH	-1000 to +1000mV
Resolution:	0,01pH	1mV
Accuracy:	0,01pH	3mV
Long term stability, 1 year:	0,02pH	6mV
Display:	Red LED-display 3½-digit	
Character high:	12.7mm	
Temperature drift:	Max. 50µV/°C	
Max. humidity:	non condensing	
Input impedance:	1000GΩ (10 ¹² Ω)	
Input bias current:	Max. 1,5pA	
Pt-100 or manual button:	temperature compensation by Pt-100 3-wire, or by hand.	
Temp. button:	Display the actual temperature	
Auto / manual button:	Relay contact automatically/manually	
+ / - button:	to increase or decrease values	
pH7 button:	calibrate the probe at isotherm 7pH	
mV/pH button:	calibrate the probe at straight pH values	

Programming functions:

Nr.1	
Nr.2	
Nr.3	(N/O C = normally open contact)
Nr.4	open contact)
Nr.5	
Nr.6	
Nr.7	
Nr.8	

Program switch positions:

ON	OFF
LED 1 inverse	LED 1 normal
LED 2 inverse	LED 2 normal
REL 1 N/O, open	REL 1 N/O, closed
REL 2 N/O, open	REL 2 N/O, closed
2...12pH	0...14pH
4...20mA	0...20mA
not used	
not used	

Option signal current output:

Max. load:	0/4...20mA, galvanically isolated
Output impedance:	500Ω
Relay contact:	Typ. >1MΩ
Hysteresis:	Adjustable over the full pH or mV range
Relay contact status:	15 digit
Relay contact output:	Displayed by green LED-lamps
Max. contact load:	Floating change over contacts
	2A@230VAC, inductive or
	6A@230VAC, resistive

Power supply:

CE-Conformity: 230V 50-60Hz, 9VA fulfilled

Terminals:

Terminal description:

	two plug-in screw terminals
Nr. 1	Pt-100 sense -
Nr. 2	Pt-100 -
Nr. 3	Pt-100+
Nr. 4	PE for Pt-100/output
Nr. 5	Signal current output +
Nr. 6	Signal current output -
Nr. 7	Contact 1 norm. open contact
Nr. 8	Contact 1 norm. closed contact
Nr. 9	Contact 1 change over
Nr. 10	Contact 2 norm. open contact
Nr. 11	Contact 2 norm. closed contact
Nr. 12	Contact 2 change over
Nr. 13	power supply } PE
Nr. 14	power supply } N
Nr. 15	power supply } L1

pH/mV-plug:

Weight: 13mm DIN-plug with teflon insulation

Accessories: 620g

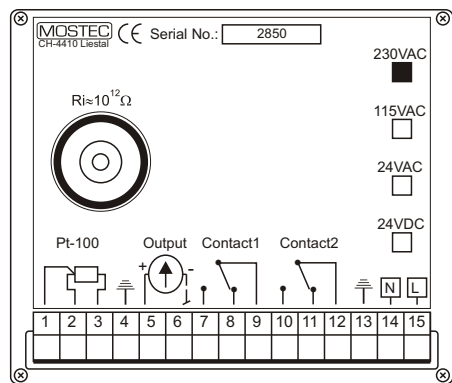
Warranty: 2 mounting clamps, 1 manual

2 years

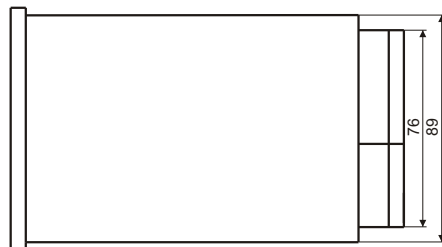
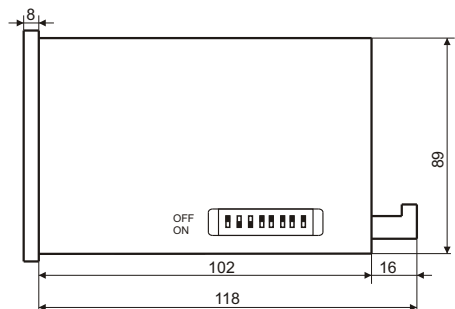
Options:

- 115VAC/24VAC/24DC Power supply
- Custom specific outputs
- Custom specific functions
- transparent plastic door IP55

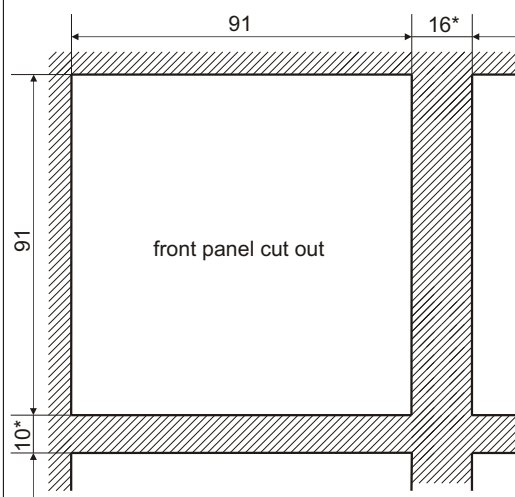
Back panel:



Dimensions, mm:



Cut out dimensions, mm:



*min. distance from one instrument to the next

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