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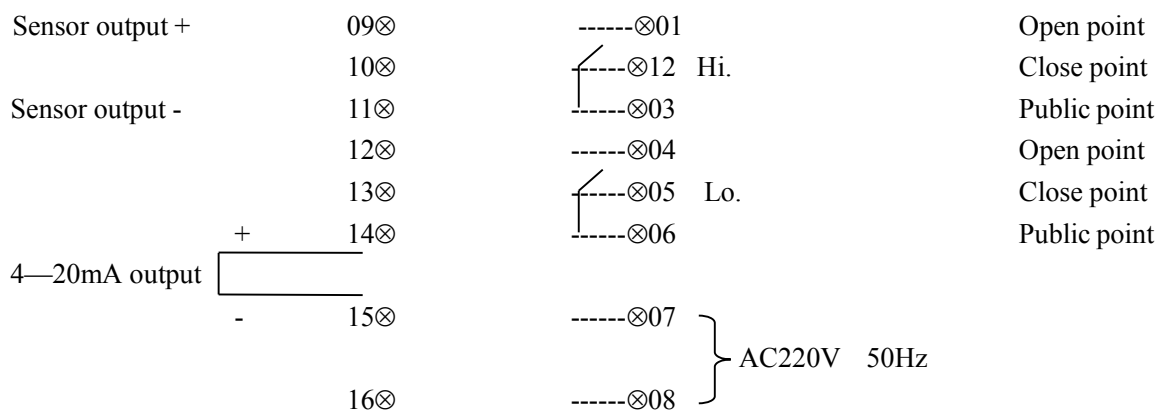
PH/ORP 6658H INSTALLATION AND MAINTENANCE MANUAL

PH/OPR – 6658H CONTROLLER is a Multifunctional Intelligent Instrumentation with PH monitoring and redox control. It has the Characteristics of not only multifunction, intelligence, high precision, but also good Stability and anti-jamming capability. Meanwhile, this controller has a good cost performance. It's widely used in the situation of sewage treatment such as in electroplating factories, circuit board production, fermentation, food processing.

PARAMETER

Power supply	AC 220V(160—250V)50Hz
Power unit	<5W
Accuracy	0.01PH 1mV
Measurement range	0—14PH — 999mV — 999mV
Set point	2
Environmental temperature	0~50℃
Display	Four-level LED LCD instructions
Environmental humidity	35—85%RH
Parameters preservation	10 years
Output model	ON / OFF 4—20mA
Output capacity	AC 250v / 3A DC30V / 3A
Input impedance	$\geq 10^{12}\Omega$
Insulation R	$\geq 10M\Omega$
Size	96mmX96mmX120mm

CONTROLLER CONNECT



KEY AND LCD INSTRUCTION

L — Lo. Output instruction
H — Hi. Output instruction

M — Menu function
≧ — Data increase



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Hial — Hi. Data set

Hb — Set Hi. Data confines

LOal — Lo. Data set

Lb — Set Lo. Data confines

≡ — Data decrease

CAL — Calibration model

Fun—PH / ORP choice

P1、P2 calibration point

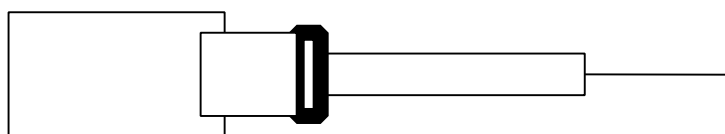
INSTALLATION

1. Install line picture (see page 1). L and H-contact capacity which PH/ORP Controller provides is 220VAC 3 A. If the load is excesses, please add the intermediate Relay.
2. Controller Install. Please set aside a 92×92 mm hole on the panel of electricity box. Then put the controller into electricity box from the hole, install two fixture's clip, and fix it with the screw.



92x92mm

ELECTRODE CONNECT



【1】

【2】【3】

【4】

【5】

【1】 Rind of electrode (black)

【3】 Black conductive rubber (black)

【5】 Center line (GLASS)

【2】 Net-line of electrode (REF)

【4】 White protect tube (White)

PH CALIBRATION

1. Rinse the electrode with distilled water and dry it with tissue paper.
2. Before measurement, please let it be in the PH 6.86 standard solution until it has a stable show.
3. Press and hold the M (P) Key 3 seconds and you will get the functional menu. Then please find the menu with "CAL" in the main screen and "-----" in the assistant screen .
4. Press Δ key, 'P1' will be displayed in the assistant screen.
5. Press M (P) key, 'P1' will be displayed in the main screen, and '6.86' will be displayed in the assistant screen. (if not, please press Δ and V to change it to be '6.86')
6. Press M (P) key, '6.86' will be displayed in the main screen, and 'no' will displayed in the assistant screen.
7. Press Δ key, 'yes' will be displayed in the assistant screen.
8. Press M (P) key, 'P1' will be displayed both in the main screen and in the assistant screen. .
9. After a few of seconds, 'CAL' will be displayed in the main screen, '-----' will be displayed in the assistant screen, That means P1 calibration is completed.
10. Change the standard solution with PH 4 or PH 9.18, and then please repeat the steps from 1 to 9. That means P2 calibration is finished.



ORP CALIBRATION

ORP electrode don't need to be calibrated with the standard solution. but ORP electrode should be checked with mV standard solution.

1. Rinse the electrode with distilled water and dry it with tissue paper.
2. Before measurement, please let it be in the mV standard solution until it has a stable show.
3. If the measure value is bigger or smaller 35mv than the standard solution, the electrode is ok. Else please exchange ORP electrode. Please check that whether the value displayed is proximity to the value of mV Standard solution. If the error of plus or minus 3 5 mV within, the electrode can work. Or replace it.

MAINTENANCE

1. Rinse the electrode once two weeks. It depends on the water samples.
2. Calibrate ph/orp controller once a month. It depends on the water samples.
3. If ph/orp controller doesn't work as normal, please follow the list below. If they can not be solved, please contract our company.

Hi AND Lo LIMIT OUTPUT SET OF PH

Press the M (P) key and hold it for 3 sec and you will get the functional menu. Move to the menu with "HiAL" displayed in the main screen , Press Δ or V key to set the Hi value.

Press the M (P) key and hold it for 3 sec and you will get the functional menu. Move to the menu with "Hb" displayed in the main screen, Press Δ or V key to set the Hb value.

For example: Require control alkali, $3 < \text{PH range} < 4$

Set : HiAL =9.5 , Hb = 0.5.

Press the M(P) key and hold it for 3 sec and you will get the functional menu. Move to the menu with "LoAL" displayed in the main screen , Press Δ or V key to set the Lo value.

Press the M (P) key and hold it for 3 sec and you will get the functional menu. Move to the menu with "Lb" displayed in the main screen, Press Δ or V key to set the Lb value.

For example: Require control alkali, $9 < \text{PH range} < 10$

Set : LoAL =3.5 , Lb = 0.5.

Lo AND Hi LIMIT OUTPUT SET OF ORP

Press the M (P) key and hold it for 3 sec and you will get the functional menu. Move to the menu with " HiAL" displayed in the main screen , Press Δ or V key to set the Hi value.

Press the M (P) key and hold it for 3 sec and you will get the functional menu. Move to the menu with "Hb" displayed in the



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main screen , Press Δ or V key to set the Hb value.

For example: Require control the leaching, $500 < \text{ORP range} < 600$

Set : HiAL =600 , Hb = 30.

Press the M (P) key and hold it for 3 sec and you will get the functional menu. Move to the menu with “LoAL” displayed in the main screen, Press Δ or V key to set the Lo value.

Press the M(P) key and hold it for 3 sec and you will get the functional menu. Move to the menu with “Lb” displayed in the main screen , Press Δ or V key to set the Lb value.

For example: Require control Sodium Sulfide, $70 < \text{ORP range} < 100$

Set : LoAL =100 , Lb =30.

TROUBLESHOOT

Trouble	Reason	Solution
No display in controller	Power not connected or insurance Fuse	Check power lines and fuse
Figures show instability	Electrode Line humid	Check the electrode line
	Ceramic electrode contaminated	Cleaning ceramic (0.1 m HCL)
Can't be calibrated to be pH4. 01 及 pH6. 86	Electrode external contamination	Cleaning electrode (O. 1 m HCL)
	Electrode Line humid	Check electrode line
	Electrode breakage or cracks	Replace the electrode
	Ceramic plugged	Cleaning ceramic (0. 1 m HCL)
Digital slow reaction	Films or ceramic electrode contaminated	Cleaning the entire electrode
When the actual pH value has changed a great value but control has shown little change	Ceramic plugged	Cleaning ceramic (0. 1 m HCL)
	Electrode aging, slow reaction	Renewable liquid
Controllers figures show fixed	Electrode breakdown	Replace the electrode
Relay is not within the controller moves or not Dosing	Relay damage	Replace the relay
	Controller error set	Reset value
	No enough medicine.	Add medicine