

Instruction Manual of CCOREL250 Pool Controller Systems

First, Attention Before Use

1. Please read the detail of Instruction manual and keep it properly, so as to use for reference.
2. If wrong connection will be leaded the meter to stoppage or damage, so please let professional staffs to operate it.
3. Owing to the using electrode is reference electrode, actually, which regards as a Mini-primary cell. Therefore, anode and cathode are not to be short circuit, Otherwise the electrode will be badly damaged and loss efficacy。
4. The output power is 200V/1.0KW, limiting to direct control Mini-Metering Pump. If using high load, please use the AC contactor to control.
5. The controller is wall-mounted.
6. Please pay attention to waterproof, fire proofing and insulation。

Second, Before Installation

1. Check accessories, parts as follows:

No.	Description	Packaging	Unit	Quantity
1	Sensor holder	carton	set	1
2	PH electrode	carton	pcs	1
3	ORP electrode	carton	pcs	1
4	Instruction manual	Bag film	pack	1
5	tee	Bag film	pack	1
6	Installing screw	Bag film	pack	1

2. Choose the correct electrode positions and prepared pipeline.
3. Prepared electric valve and dosing pump

Third, Control Panel



Fourth, Buttons Instruction

1. Numerical value: ORP , PH;
2. Working condition: OFF, MANUAL, AUTO;
3. Output condition: FEED, ALARM
4. Buttons function:

No.	Description/Function
1	【 ↑ 】 up
2	【 ↓ 】 down
3	【ORP】
4	【PH】
5	【PROPORTIONAL CONTROL】
6	【SAFETY TIMER】
7	【SET POINT】
8	【pH CALIBRATION】
9	【LOW LIMIT】
10	【HIGH LIMIT】

Fifth, Function

1. After the system connected electricity and open side switch, the system will self calibrate ORP and PH, but the light is still OFF.
2. Clicked 【ORP】 or 【PH】, the controller will be alternately move in three function of OFF , MANUAL and AUTO. Continuous clicked【ORP】 or 【PH】 for 5 seconds, the system will restore original standard.

3. Default setting

- (1) PH Max=7.5,
- (2) PH Min=7.0,
- (3) ORP Max=750mv

- (4) ORP Min=650mv
- (5) PH feed time=10min
- (6) PH rest time=10min
- (7) ORP feed time=10min
- (8) ORP rest time=10min

4. Automatic operation system:

(1) After power on and toggle switch, the system is self- calibration and display PH and ORP data. The ALARM light is close in setting PH and ORP; contrary, ALARM light works out off setting data and the OFF light is shine, so that dosing pump and FEED light will be off.

(2) Clicked **【ORP】** two times to AUTO, then ALARM light is shine and FEED(dosing) be off, the dosing pump works for 10mins(Default system) and stops for 10 mins(Default system). Its dosing and stop interchanged repeating working, until ORP is satisfied with setting.

(3)PH setting is completely same with ORP's.

5. Manual settings:

(1) After power on and toggle switch, the system is self- calibration and display PH and ORP data. The ALARM is close in setting PH and ORP; contrary, ALARM light works out off setting data and the OFF light is shine, so that dosing pump and FEED light will be off.

(2) Clicked **【ORP】** one times and choose MANUAL, the screen will be show on ORP data. ALARM and FEED light are off, which show that

dosing pump not work. (Attention, ORP and PH can not enter MANUAL condition to setting at the same time.

(3) Clicked **【LOW LIMIT】**, the screen display 650mv. Please choose up or down(**【↑】** or **【↓】**) to confirm min ORP data and keep **【SET POINT】**. The Min ORP data will keep on the screen.

(4) Clicked **【HIGH LIMIT】** , the screen display 750mv. Please up or down(**【↑】** or **【↓】**) to confirm max ORP, then confirm and keep **【SET POINT】** . The Max ORP data will keep on the screen.

(5) Clicked **【PROPORTIONAL CONTROL】** and clicked **【SAFETY TIMER】** ,the screen displays 10 minutes for default chemical dosing. Please up or down(**【↑】** or **【↓】**) to confirm dosing time, then confirm and keep **【SET POINT】** . The Max ORP data will keep on the screen.

(6) Clicked **【ORP】** one time and converting to AUTO, ORP will be execute automate. All the setting data will be keep and work in the future, except you will re-new to set the system.

(7) The PH manual setting steps are completely same with the ORP's.

6. Sensor Calibration

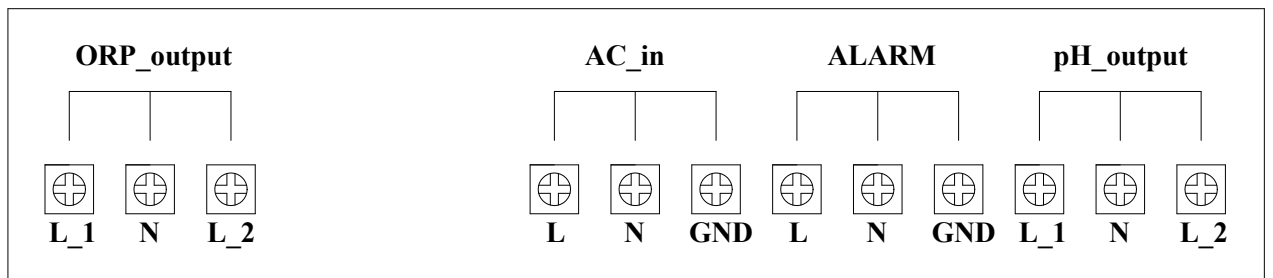
(1) Clicked **【PH】** to MANUAL, PH is show correct date and put the probe into 4.0 standard solution, then clicked **【PH CALIBRATIO】** . So that the screen flush, and up or down to 4.0, Please clicked **【SET POINT】** to save.

(2) Clicked **【PH】** to MANUAL, current PH is 6.8 standard solution. Then

clicked **【pH CALIBRATION】** , so that the screen flush, then choose up or down to 6.8 with confirm to **【SET POINT】** .

Sixth, Output Control

(1) Wiring terminal schematic diagram



Terminal output instrument

Description	Terminal name	Output function
ORP_output	L_1	Low limit output Ac220V
	L_2	High limit output Ac220V
	N	High, low limit common post
AC_in	L	Battle line (220V)
	N	Null line
	GND	Protective earthing
ALARM	L	Battle line (220V)
	N	Null line
	GND	Protective earthing
pH_output	L_1	Low limit output Ac220V
	L_2	High limit output Ac220V
	N	High, low limit common post

(2) Output Attentions

All exchange electricity of direct output are AC-220V, not exceeding 1kw. When the FEED pump's power is smaller than 1kw, it can direct feed. In order to protect the relay, please use the output terminal control

exchange device to carry on the indirect operation when the FEED pump's power is bigger than 1kw