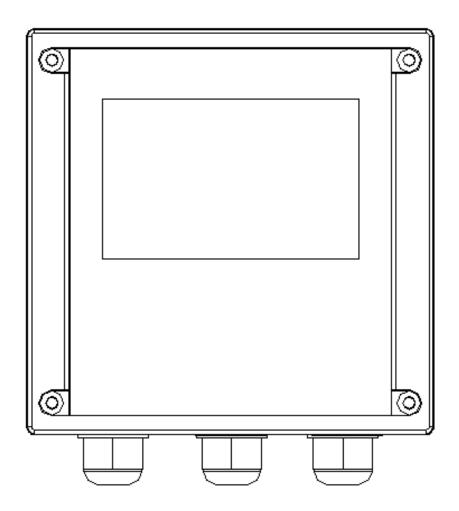
Free Chlorine/CLO2/O3 Controller



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Safe operation procedures

Read the following instructions before using the instrument.

- 1. After unpacking the instrument please check for damage due to shipping.
- 2. The instrument must be operated by trained professional and technical personnel.
- 3. Read the manual carefully to avoid incorrect wiring connection that can cause equipment damage and safe problem.
- 4. After wiring carefully check all are correct then can power on and make sure the others equipments are correct.
- 5. Please avoid installing in a high humidity, high temperature, corrosive and in a direct sunlight environment.
- 6. Please separate the power lines of instrument from other machines that produces high noise in the power lines.

Instrument use

Instruments are used in industrial measuring of the temperature and Free Chlorine, such as wastewater treatment, environmental monitoring, swimming pool, waterworks, food production process, etc.

The instrument can be panel, wall or pipe mounted.

The instrument provides two current outputs. The maximum load is 500 Ohm.

The instrument provides 3 relays. It can pass though a maximum of 5 Amps at 250 VAC or 5 Amps at 30VDC.

Product content

The product package contains 1 instrument, the printed manual, 4 sets of brackets.(fixed block, fixed bar, screw)

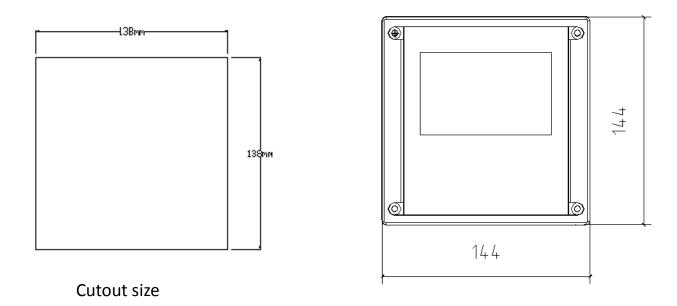
Specifications

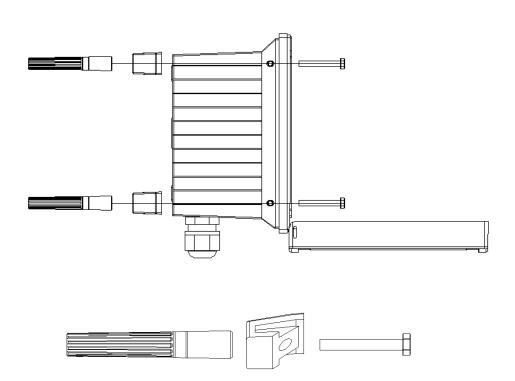
Functions	FCL	CLO2	03
Measuring range	0.00 to 20.00 / 0.000 to 2.000 ppm(mg/L)		
Resolution	0.01 / 0.001 ppm(mg/L)		
Accuracy	±0.01 / ±0.001 ppm(mg/L)		
Temp. compensation	Pt-1000/NTC22K		
Temp. range	-10.0 to +130.0°(
Temp. compensation range	-10.0 to +130.0°(
Temp. resolution	0.1 °C		
Temp. accuracy	±0.2°C		
Solution coefficient	0.0 to 9.99%		
Ambient temperature range	0 to +70°C		
Storage temp.	-20 to +70°C		
Display	Back light, dot matrix		
FCL current output1	Isolated, 4 to 20mA output , max. load 500Ω		
Temp. current output 2	Isolated, 4 to 20mA output , max. load 500Ω		
Current output accuracy	±0.05 mA		
RS485	Modbus RTU protocol		
Baud rate	9600/19200/38400		
Maximum relay contacts	5A/250VAC \ 5A/30VDC		
capacity			
Cleaning setting	ON: 1 to 1000 seconds, OFF: 0.1 to 1000.0 hours		o 1000.0 hours
One multi function relay	clean/period ala	rm/error alarm	
Relay delay	0-120 seconds		
Data logging capacity	500,000		
Language selection	English/traditional Chinese/simplified Chinese		
Waterproof grade	IP65		
Power supply	From 90 to 260 VAC, power consumption < 5 watts		mption < 5 watts
Installation	panel/wall/pipe	installation	
Instrument size	144mm X 144mr	n X 105mm (H/W	/D)
Cutout size	138mm X 138mr	n	
Weight	0.85Kg		

Instrument installation

The instrument can be panel, wall or pipe mounted installation.

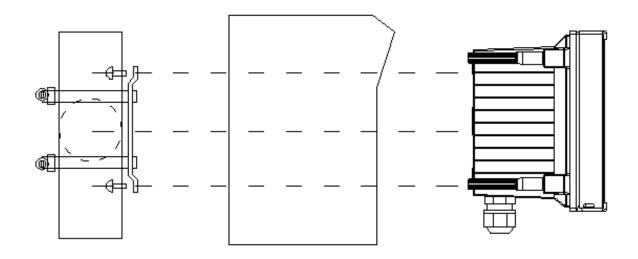
Panel Installation: Make a 138x138 mm square cutout and insert the instrument. Screw in the fixed block with the screws and fixed bar.



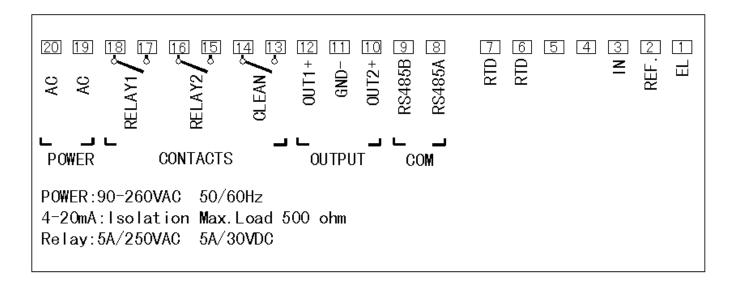


Installation figure

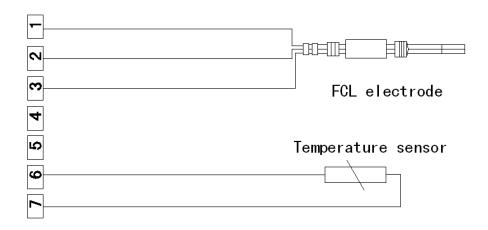
Wall and pipe installation



Connection label

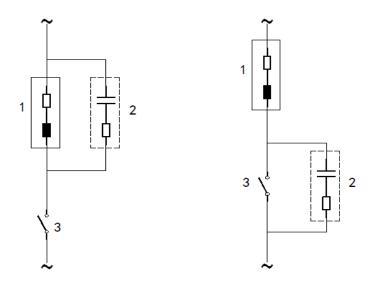


Electrode connection figure



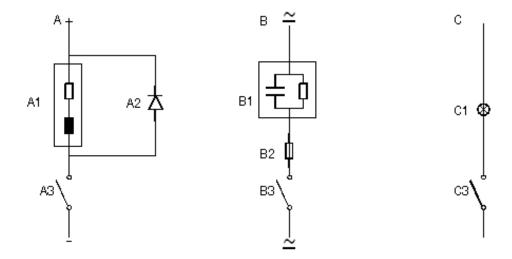
Relay contact protection

Electrical spark at the relay contact may affect the life of the relay, especially in an inductive and capacitive load. In order to inhibit the spark and arc, user should use an RC circuit to extend the life of the relay.



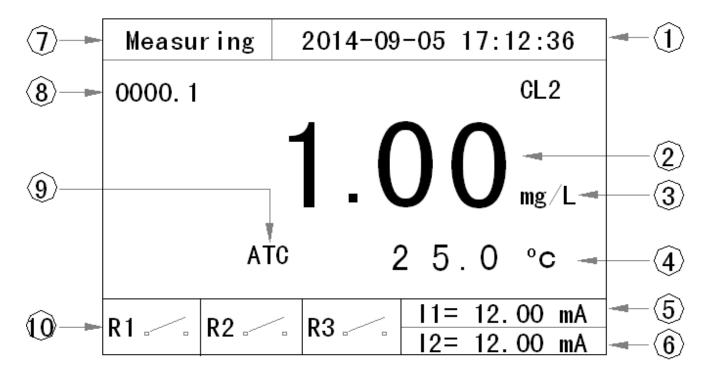
AC protection, use for inductive load

- 1. load
- 2. RC eliminate spark, using in 220VAC, R=100 ohm1W,
- 3. Relay contact



- A. DC protection ,A1: inductive load A2: 1N4007, A3: relay contact
- B. AC/DC protection ,B1: capacitive load ,B2: 0.8 Ohm/1W (DC24V) ,B3: relay contact
- C. Resistive load ,C1:lamp bulb ,C3:relay contact

Display

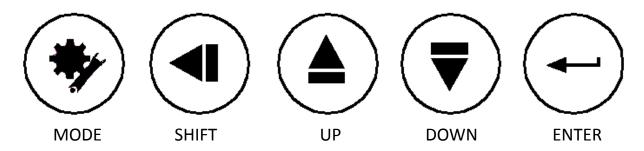


- 1. Date and time
- 2. Main display
- 3. Unit
- 4. Temperature and unit
- 5. First current output
- 6. Second current output
- 7. Measurement status and Error indicator, there is no display if meter is in keeping mode
- 8. Count down timer: cycle time/clean time, it also displays the "delay" when relay3 has a delay enabled.
- 9. Temp. compensation: auto(ATC) or manual(MTC)
- 10. Relay indicator

Note:

If the FCL readings are under or over the range, it will display 0.00/99.99 or 0.000/9.999 If the temperature readings are under or over the range, it will display -99.9/999.9.

Key



Key name	Meas. status	Setting status	Cal. status	Record status
MODE	Enter password	Exit	Exit	Exit
SHIFT	none	Move digit	Mode digit	Mode digit
UP	Enter record	Inc	Inc	Inc
DOWN	None	Dec	Dec	Dec
ENTER	ON/OFF back light	Enter	Enter	Enter

Keeping mode

Keeping mode is a safe mode. It is for Calibration, Setting, Record and Clean. In this mode all the relays are open(inactive), current output follows the setting by user(last current or fixed current).

The instrument will enter keeping mode when user presses into Calibration, Setting, Record or the instrument works in clean mode.

It will in keeping mode around 10 seconds when it goes back to measurement mode form the above mentioned 4 mode then left keeping mode.

The instrument will go into the keeping mode when turn on the power.

Current output in keeping mode:

User has two choices: fixed current output or last current output.

Fixed current: User can set the output current from 4.00 to 20.00mA when

instrument goes into keeping mode.

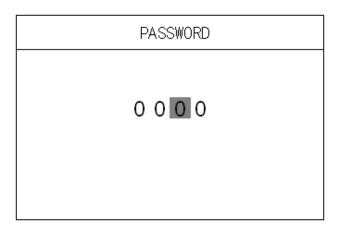
Last current: User can set the output current keep at the last current when

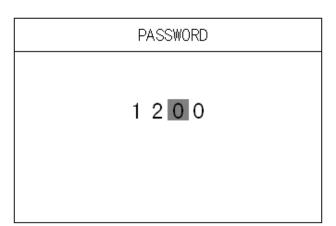
instrument goes into keeping mode.

Relays in keeping mode: Relay1 and Relay2 open.(inactive)

Setting

Press MODE key to enter the password menu and then press UP/DOWN/SHIFT key to input password 1200 then press ENTER will enter to setting mode or press MODE key to exit. If no key is be pressed and over 10 minutes then it will go back to measurement mode.

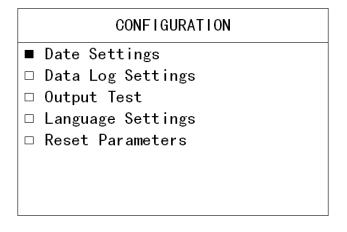




Main display

Press UP/DOWN key to choose functions, press ENTER key enter the function.

 ■ Current1 Settings □ Current2 Settings □ Relay1 Settings □ Relay2 Settings □ Relay3 Settings □ Measurement Settings □ Temperature Settings
 □ Current2 Settings □ Relay1 Settings □ Relay2 Settings □ Relay3 Settings □ Measurement Settings
 □ Relay1 Settings □ Relay2 Settings □ Relay3 Settings □ Measurement Settings
Relay2 SettingsRelay3 SettingsMeasurement Settings
□ Measurement Settings
□ Temperature Settings
- romportation objectings
□ RS485 Settings



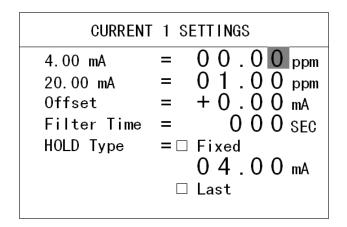
Page1

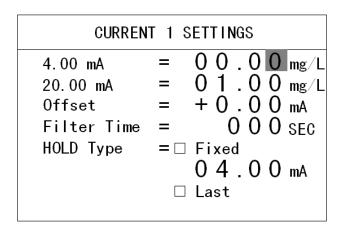
Page2

Notices:

- 1. When the input data is not in correct range then it will display ERROR on the top of LCD
- 2. After input data user needs to press ENTER to save the data.
- 3. Press MODE to exit.
- 4. No key is be pressed in 10 minutes then it will go back to measurement mode.

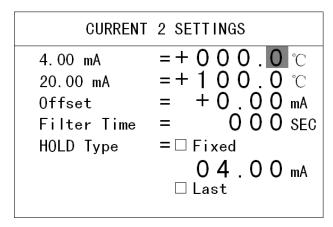
Current 1 settings





- 1. Set the corresponding 4.00mA to ppm/mgL.
- 2. Set the corresponding 20.00mA to ppm,mg/L, the difference between 4.00mA and 20.00 mA at least 1.00/0.100.
- 3. Set the offset current, the range is \pm 1.00mA.
- 4. The filter time range is 0-120 seconds, the low pass filter of software will active when the current from one point to another point if user sets the filter time.
- 5. Set the current 1 output mode(fixed / last) when instrument enter into keeping mode.

Current 2 settings

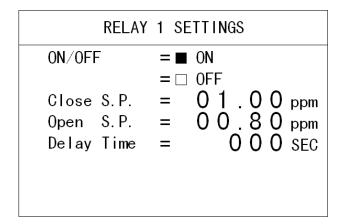


- 1. Set the corresponding 4.00mA to temperature.
- 2. Set the corresponding 20.00mA to temperature, the difference at least between 4.00mA and 20.00 mA is 10.0°C.
- 3. Set the offset current of temperature, the range is \pm 1.00mA.
- 4. The filter time range is 0-120 seconds, the low pass filter of software will active when

the current from one point to another point if user sets the filter time.

5. Set the current 2 output mode(fixed / last) when instrument enter into keeping mode.

Relay 1 settings

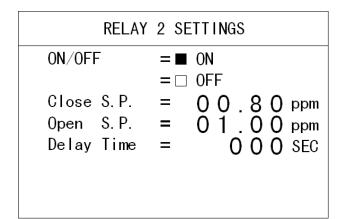


RELAY	1 SETTINGS
ON/OFF	= ■ ON
Class C D	=
Close S.P. Open S.P.	$= 0.1 \cdot 0.0 \text{mg/L}$ $= 0.0 \cdot 8.0 \text{mg/L}$
Delay Time	= 0.0.80 mg/L $= 0.00 SFC$
Deray Tille	- 0 0 0 3L0

- 1. Press UP/DOWN key to ON/OFF (enable/disable) relay1.
- 2. Close set point: active point for ppm,mg/L.
- 3. Open set point: inactive point for ppm,mg/L.
- 4. Delay time: the range is 0-120 seconds. Relay needs to delay first then active if the measuring data is reach to close set point.

Ex: If user wants turn on the pump at 1.00ppm and turn off it at 0.80ppm, then the close S.P. needs to set to 1.00ppm, Open S.P. sets to 0.80ppm.

Relay 2 settings

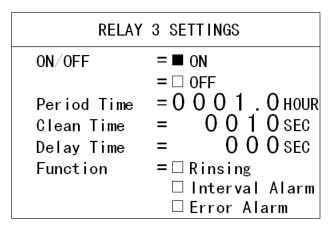


RELAY	2 SETTINGS
ON/OFF	= ■ ON
Close S.P. Open S.P. Delay Time	$ \begin{array}{l} = \ \bigcirc \ \text{OFF} \\ = \ 0 \ 0 \ . \ 8 \ 0 \ \text{mg/L} \\ = \ 0 \ 1 \ . \ 0 \ 0 \ \text{mg/L} \\ = \ 0 \ 0 \ 0 \ \text{SEC} \\ \end{array} $

- 1. Press UP/DOWN key to ON/OFF (enable/disable) relay2.
- 2. Close set point: active point for ppm,mg/L.
- 3. Open set point: inactive point for ppm,mg/L.
- 4. Delay time: the range is 0-120 seconds. Relay needs to delay first then active if the measuring data is reach to close set point.

Ex: If user wants turn on the pump at 0.80ppm and turn off it at 1.00ppm, then the close S.P. needs to set to 0.80ppm, Open S.P. sets to 1.00ppm.

Relay 3 settings



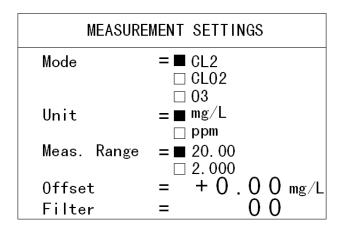
- Press UP/DOWN key to ON/OFF (enable/disable) relay3.
- 2. Period time: The period for Rinsing or interval function.
- 3. Clean time: When period is timeout then relay active.
- 4. Delay time: the range is 0-120 seconds. Relay needs to delay first then active if the period is timeout.
- 5. Function: press UP/DOWN key to choose

Rinsing/Interval/Error.

Notice:

- 1. Rinsing: when period timeout then clean-relay will active, when clean time is timeout the repeat count for the period.
- 2. Interval alarm: When period timeout then clean-relay active until user resets the interval then the clean-relay inactive and repeat count for the period.
- 3. Error alarm: The clean-relay active when there is a error produce. No delay time function in this mode.

Measurement settings



MEASURE	MENT SETTINGS
Mode	= ■ CL2
	□ CL02
	□ 03
Unit	= □ mg/L
	■ ppm
Meas. Range	= ■ 20.00
	□ 2.000
0ffset	= +0.00 ppm
Filter	= 00

- 1. Mode for measuring, press UP/DOWN key to choose.
- 2. Unit for measuring, press UP/DOWN key to choose.
- 3. Measuring range, press UP/DOWN key to choose.
- 4. Offset, range is \pm 1.00.
- 5. Filter: Range 0-10.

Notice:

If the reading is not stable then user can set the filter to average the readings.

Temperature settings

TEMPERATURE SETTINGS			
Automatic	=■ Auto		
Probe	= □ Manua I = □ Pt 1000 = □ NTC 22K		
Offset	= + <u>0</u> . 0 °C		
Manual Meas.	= + 0.2.7.0 °C		
Manual Cal.	= 25.0 ℃		

TEMPERATURE SETTI	TEMPERATURE SETTINGS		
Display = ■ YES = □ NO			

- 1. Temperature compensation setting, press UP/DOWN key to choose.
- 2. Temperature probe, press UP/DOWN key to choose.
- 3. Temperature offset ,the range is \pm 5.00 °C .
- 4. Temperature for measuring when user set the temperature to manual.
- 5. Temperature for calibration mode when user sets the temperature to manual.
- 1. Temperature display: display the temperature on measurement mode or not.

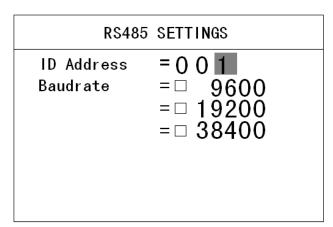
Notice:

- When user chooses AUTO and doesn't connect temperature probe then the display will not correct.
- 2. When select the probe needs to make sure

the probe type is correct.

- 3. Manual measurement: the instrument will use this temperature for compensation in measurement mode when user chooses Manual.
- 4. Manual calibration: the instrument will use this temperature for compensation in calibration mode when user chooses Manual.

RS485 settings



- 1. ID address: 1-255.
- 2. Baud rate ,press UP/DOWN key to choose.

Date settings

	DATE SETTINGS
Year	= 2 0 1 5
Month	= 0 8
Day	= 1 5
Hour	= 1 3
Minute	= 3 6
Second	= 0 4

Press UP/DOWN key to set the date. When power off the date will be kept for around 2 days.

Data log settings

DATA LOG SETTINGS		
ON/OFF	= ■ ON	
	□ 0FF	
Display Type	=□Record	
	□ XY Chart	
Reset Record	=□Yes	
	$= \square N_{0}$	
Save Period	= 0 6 0 SEC	

- 1. Press UP/DOWN key to ON/OFF (enable/disable) this function.
- 2. Display type, press UP/DOWN key to choose
- 3. Erase all the records.
- 4. Saving period from 5 to 120 second.

Notice:

- 1. When user chooses ON, then it will save measuring data follow the save period time.
- 2. Display type: Record, display the detail of record(5 records in one page), XY chart, display a chart.(150 records in one page)
- 3. When reset the records, it will spend around 10 seconds.

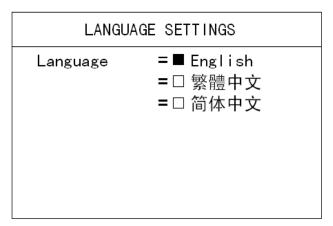
Output test

00	TPUT TEST
Current1	= 0 4 . 0 0 mA
Current2	= 04.00 mA
Relay1	= □ CLOSE
	□ OPEN
Relay2	= □ CL0SE
	= □ 0PEN
Relay3	= □ CLOSE
	= □ 0PEN

- 1. Current 1 output: 4.00-20.00mA, press UP/DOWN to set.
- 2. Current 2 output: 4.00-20.00mA, press UP/DOWN to set.
- 3. Relay 1 output, press UP/DOWN to choose.
- 4. Relay 2 output, press UP/DOWN to choose.
- 5. Relay 3 output, press UP/DOWN to choose.

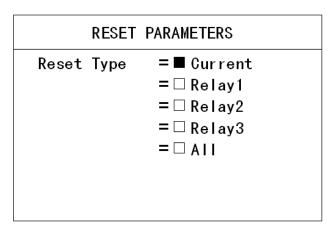
Notice: This function for testing the output only.

Language settings



Press UP/DOWN key to choose the language.

Reset parameters



Press UP/DOWN key to choose the reset.

Notice: The reset will not affect the calibrated parameters.

Record query

Press UP key at the measurement mode to enter record query mode.

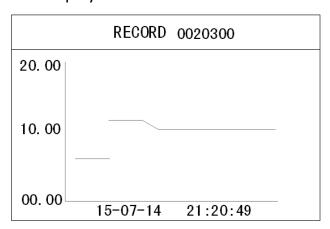
O 1 O 3 O O

Press UP/DOWN and SHIFT key to input record number then press ENTER key enter or press MODE key exit.

Display FCL record at record

	RECORD O	020300	
15-08-14 21:20:49 15-08-14 21:20:59 15-08-14 21:21:09 15-08-14 21:21:19 15-08-14 21:21:29	01.00 025.0 01.00 025.0 01.01 025.0 01.01 025.0 01.01	ppm ° C ppm ° C mg/L ° C mg/L ° C mg/L ° C	

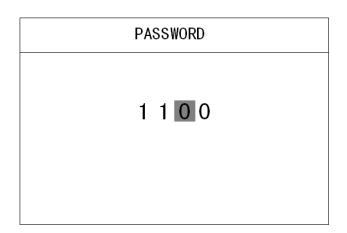
Display FCL record at XY chart



FCL Calibration

Press MODE key to enter the password menu and then press UP/DOWN/SHIFT key to input password 1100 then press ENTER will enter to calibration mode or press MODE key to exit. If no key is be pressed and over 10 minutes then it will go back to measurement mode.

PASSWORD	
0 0 0 0	



<u>Manu</u>

CALIBRATION	
 ■ Parameters Setting □ Zero Calibration □ Slope Calibration □ Reset Parameters 	

Press UP/DOWN key to select the functions and then press ENTER key to enter.

- 1. Parameters setting: set the parameters
- 2. Zero calibration: calibrate the zero point
- 3. Slope calibration: calibrate the slope
- 4. Reset parameters: reset all of the calibrated parameters to default.

Parameters setting

PARAMETERS SETTING

Solution Coeff. = 2.00%

Solution coefficient range is from 0.01 to 9.99%.

Zero calibration

ZERO CALIBRATION

0.0.10~mg/L

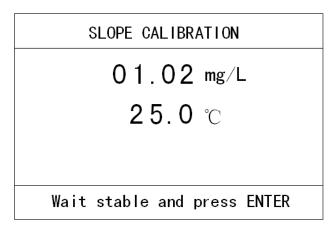
Wait stable and press ENTER

- 1. Put the FCL electrode into the flow cell that with zero free chlorine water and the flow is 150L/H.
- 2. Waiting for the current is stable then press ENTER to finish the calibration.

Notice:

- 1. The zero point reading needs to less then 0.1, if the reading is over the range then make sure the FCL electrode is good.
- 2. If the temperature is over 0.0- 60.0° C then it will display error message on the button of LCD.

Slope calibration



- 1. Put the FCL electrode into the flow cell that with known free chlorine water and the flow is 150L/H.
- 2. Waiting for the current is stable then press ENTER to go to next or Press MODE to exit

SLOPE CALIBRATION
01.02 mg/L
25.0 ℃
01.00 mg/L
Input standard data

- 1. Input standard value, the range is form 0.1 to 20.00/2.000.
- 2. Press ENTER to finish the calibration or press the MODE to exit.

Notice:

If the temperature is over 0.0- 60.0° C then it will display error message on the button of LCD.

Reset parameters

RESET PARAMETERS	
RESET	

This will reset all of the calibrated parameters to default.

<u>Defaul</u>		1.	4 00		4 00 1 20 00
CL20	20.00mA	corresponding	1.00	ppm	range: 1.00 to 20.00
CL20	4.00mA	corresponding	0.00	ppm	range: 0.00 to 19.00
C1 2	20.00	1.	0.400		difference : 1.00
CL2	20.00mA	corresponding 	0.100	ppm	range: 0.100 to 2.000
CL2	4.00mA	corresponding	0.000	ppm	range: 0.000 to 1.900
_	20.00	1.	400.0	°C	difference : 0.100
-	20.00mA	corresponding	100.0	°C	range: 0.0 to 130
Temp.	4.00mA	corresponding	0.0	°C	range: -10.0 to 120.0
_					difference : 10.0
	it 1 output		0.00	mA	range: +/- 1.00
	it 2 output	offset	0.00	mA .	range: +/- 1.00
	nt 1 filter		0	second	range: 0 to 120
	it 2 filter		0	second	range: 0 to 120
	it 1 fixed o	•	4.00	mA	range: 4.00 to 20.00
	nt 2 fixed o	•	4.00	mA	range: 4.00 to 20.00
	it 1 HOLD t		fixed		range: fixed/last
	it 2 HOLD t	type	fixed		range: fixed/last
-		ose S.P.	1.00	ppm	range: 0.00 to 20.00
Relay 1	1 CL20 op	oen S.P.	0.80	ppm	range: 0.00 to 20.00
					difference : 0.01
Relay 1	1 CL2 clo	ose S.P.	0.100	ppm	range: 0.000 to 2.000
Relay 1	1 CL2 op	oen S.P.	0.080	ppm	range: 0.000 to 2.000
					difference : 0.001
Relay 1	1 delay tim	е	0	second	range: 0 to 120
Relay 2	2 CL20 clo	ose S.P.	0.80	ppm	range: 0.00 to 20.00
Relay 2	2 CL20 op	oen S.P.	1.00	ppm	range: 0.00 to 20.00
					difference : 0.01
Relay 2	2 CL2 clo	ose S.P.	0.080	ppm	range: 0.000 to 2.000
Relay 2	2 CL2 op	oen S.P.	0.100	ppm	range: 0.000 to 2.000
					difference: 0.001
Relay 2	2 delay tim	е	0	second	range: 0 to 120
Relay 3	3 period tir	ne	1.0	hour	range: 0 to 1000.0
Relay 3	3 clean tim	e	10	second	range: 0 to 1000
Relay 3	3 delay tim	е	0		range: 0 to 120
Relay 3	3 function		error a	alarm	range: clean/period alarm/ error alarm
Save ti	me		60	second	range: 5 to 120
ID add	ress		1		range: 1 to 255
Baudra	ate		9600		range: 9600,19200,38400
CL20 o	ffset		0.00	ppm	range: +/-1.00
					_

CL2 offset	0.000 ppm	range: +/-0.100
Unit	mg/L	range: mg/L,ppm
Mode	CL2	range: CL2/CLO2/O3
Temp. Offset	0.0 °C	range: +/- 5.0
Manual Temp. for measurement	25.0 °C	range: -10.0 to 130.0
Manual Temp. for calibration	25.0 °C	range: 0.0 to 60.0
Language	English	range: English/tranditional
		Chinese /simple Chinese
Filter	5	range: 0 to 10
Temp. compensation	MTC	range: ATC/MTC
Temp. probe	Pt1000	range: Pt1000, NTC22K
Record type	record	range: record/XY chart
Solution temperature coefficient	2 %	range: 0.01 to 9.99

Password

Press MODE key 1100:Calibration mode 1200:Setting mode

If no key is be pressed and over 10 minutes then it will go back to measurement mode.

Error code

Error 01	memory error
Error 02	reading is over maximum
Error 03	reading is under minimum
Error 04	temperature is over maximum
Error 05	temperature is under minimum
Error 06	current 1 output is over 20.5 mA, the maximum is 22.00mA
Error 07	current 1 output is under 3.8 mA, the minimum is 3.5mA
Error 08	current 2 output is over 20.5 mA, the maximum is 22.00mA
Error 09	current 2 output is under 3.8 mA, the minimum is 3.5mA
Error 10	record error
Error 11	ADC damage
Error 99	default parameters lost

RS485 command

The instrument use the standard Modbus-RTU protocol, all of the data are word type(2 bytes), the range is $-32767 \sim 32767$, 16 system.

PC command:

	ID address	command	Start address	Data number	CRC16
length	1 byte	1byte	2 byte	2 byte	2 byte
Ex.	0x01	0x03	0x0001	0x0001	0xD5CA

Instrument response:

	ID address	command	Data number	data	CRC16
length	1 byte	1 byte	1byte	N byte	2 byte
Ex.	0x01	0x03	0x02	0x02 0xBC	0xB895

If response is 01, the command is wrong.

If response is 02, the address is not correct.

If response is 03,data number is not correct.

command 03: read the settings command 04: read the readings

04:definition

address

(00)	0x00	CL20/CL2 reading	reading:X 0.01, X0.001
(01)	0x01	CL20/Cl2 current	reading:X 0.01
(02)	0x02	Temperature	reading:X 0.1
(03)	0x03	Temperature current	reading:X 0.01
(04)	0x04	Error code	reading:X 1
(05)	0x05		
(06)	0x06		
(07)	0x07		
(80)	0x08		
(09)	0x09	Model type	fix to 6

03:definition

Address

(00)	0x00	CL20 20.00mA corresponding	reading:X0.01
(01)	0x01	CL20 4.00mA corresponding	reading:X0.01

(02)	0x02	CL2 20.00mA corresponding	reading:X0.00	1
(03)	0x03	CL2 4.00mA corresponding	reading:X0.00	
(04)	0x04	Temp. 20.00mA corresponding	reading:X0.1	
(05)	0x05	Temp. 4.00mA corresponding	reading:X0.1	
(06)	0x06	Current 1 offset	reading:X0.01	
(07)	0x07	Current 2 offset	reading:X0.01	
(08)	0x08	Current 1 filter	reading:X1	
(09)	0x09	Current 2 filter	reading:X1	
(10)	0x0A	Current 1 fixed current	reading:X0.01	
(11)	0x0B	Current 2 fixed current	reading:X0.01	
(12)	0x0C	Current 1 HOLD type	reading:X1	0=fixed,1=last
(13)	0x0D	Current 2 HOLD type	reading:X1	0=fixed,1=last
(14)	0x0E	Relay1 CL20 close S.P.	reading:X0.01	
(15)	0x0F	Relay1 CL20 open S.P.	reading:X0.01	
(16)	0x10	Relay1 CL2 close S.P.	reading:X0.00	1
(17)	0x11	Relay1 CL2 open S.P.	reading:X0.00	
(18)	0x12	Relay1 delay time	reading:X1	
(19)	0x13	Relay2 CL20 close S.P.	reading:X0.01	
(20)	0x14	Relay2 CL20 open S.P.	reading:X0.01	
(21)	0x15	Relay2 CL2 close S.P.	reading:X0.00	1
(22)	0x16	Relay2 CL2 open S.P.	reading:X0.00	1
(23)	0x17	Relay2 delay time	reading:X1	
(24)	0x18	Relay3 clean period	reading:X0.1	
(25)	0x19	Relay3 clean time	reading:X1	
(26)	0x1A	Relay3 delay time	reading:X1	
(27)	0x1B	Relay3 function	reading:X1	0:clean,1:period alarm
				2:Error alarm
(28)	0x1C	Record saving time	reading:X1	
(29)	0x1D	Unit	reading:X1	0=ppm,1=mg/L
(30)	0x1E	Mode	reading:X1	0=FCL,1=CLO2,2=O3
(31)	0x1F	CL20 offset	reading:X0.01	
(32)	0x20	CL2 offset	reading:X0.00	1
(33)	0x21	Temp. offset	reading:X0.1	
(34)	0x22	Manual temp. for measurement	•	
(35)	0x23	Manual temp. for calibration	reading:X0.1	
(36)	0x24	Temp. compensation	reading:X1	0=Auto,1=manual
(37)	0x25	Temp. probe	reading:X1	0=Pt1000,1=NTC22K
(38)	0x26	Language	reading:X1	0=English ,1=tranditional
				Chinese,2=simple Chinese
(39)	0x27	Filter	reading:X1	
(40)	0x28	Solution temp. coefficient	redaing:X0.01	