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Online Monitoring Instrument for Water Treatment Systems

44710 (Old Model: F84)

WENZHOU RUNXIN MANUFACTURING MACHINE CO.,LTD

ADD: NO.169, RUNXIN ROAD, SHANFU TOWN, WENZHOU, ZHEJIANG, CHINA.

TEL.:0086-577-88630038, 88576512, 85956057 FAX:0086-577-88633258

E-MAIL: sales@run-xin.com <http://www.run-xin.com>

Rev. A. 1805

Instruction Manual



Please read this manual in details
before using this valve and keep it properly
in order to consult in the future

0WRX.466.520


Catalogue

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Notice

- To ensure normal operation of the valve, please consult with professional installation or repairing personnel before using it.
- If there are any of pipeline engineering and electric work, there must be finished by professional at the time of installation.
- Do not use the device with unsafe or unknown quality water.
- Do not put the device near heat sources, high humidity, corrosive, intense magnetic field or intense vibrations environment. And do not leave it outside.
- The device should be installed horizontally and fastened.
- Please use this product within water temperature 5~45°C, water pressure 0.05~0.4MPa. Failure to use this product under such conditions voids the warranty.
- Manual testing is needed for the whole system, so as to compare with the device testing result when necessary.
- Do not let children touch or play, because careless operating may cause the procedure changed.
- If the device is closing down for a long time, please disassemble the reagent from the device and keep it away from sunlight, put in the shady and cool place. Please put the reagent in the refrigerator if it is possible.
- The lubricant that used in the product is methyl silicone. When maintenance, other lubricant is forbidden to use.
- When the attached cables and transformer of this product needs to be changed, the replacements must come from our factory.

Attention! When the alarm of reagent shortage appears, after replacing the reagent, it must be in “Monitoring Waiting” position and press  for 5 seconds, then alarm cleared, the system get back to work.

The testing mode of default setting is A-01. If you set A-02, then parameters' default value under A-01 mode will not be saved. Please record default settings on the below table before changing testing mode.

Default Settings Table

Waiting Time	Reagent Lack Alarm	Hardness Alarm	Washing Time A
Empty Time B	Water Enter Time	Testing Time	Washing Time B

1. Product Overview

1.1. Main Application & Applicability

The online monitoring instrument is used for monitoring the outlet water hardness of softening water systems that have high requirement on the water hardness, such as steam generator, hot-water boiler, etc. If the outlet water hardness exceed standard, the instrument will give the sound-light alarm and send the signal to the softener control valve, controlling the system to start regeneration.

1.2. Product Characteristics

● Simple Structure and High Integration

The core part of the product is made of the high degree pottery. It combines with Empty A (Monitoring Waiting), Washing A, Empty B, Reagent Entering, Water Sample Entering, Testing, and Washing B. Realize automatic wash, automatic reagent refill, automatic water sample enter, automatic water mixing, automatic testing and automatic signal output.

● Accurately Sampling

Feeding in reagent through the high-precision through-holes in the reagent bottle and sampling in the mixing cavity makes the measurement more accurate.

●High Degree of Automation

The whole process is controlled by the micro-computer; each working status and working time is showed in the LCD display board.

●Press “●There are two kinds of working mode: A-01 and A-02

A-01 mode: the monitoring waiting time is directly set by users

A-02 mode: by inputting the resin volume, water hardness, average water consumption per hour, the monitoring waiting time will be automatically calculated by the device. It is good for saving reagent by making the time short during the cycle of producing water and making the time long during the regeneration time.


●Reasonable, Economic and Effective

The device will control the softener valve start regeneration when the water hardness of outlet water exceed standards; the device will be in the waiting conditions when none of the water come from the outlet, so as to save the reagent, making the whole system operate more reasonably, economically and effectively.

●Less Maintenance

A bottle of reagent can be used for about three months.

●Intelligent Protection

1. After power off, the device will be in Empty A conditions (Monitoring waiting), avoiding the wrong alarm.
2. After starting monitoring, in any status, if the device finds there is no water for more than 5 seconds, the device will not tell the testing result, which means the display board will not show “This testing is qualified or unqualified” after monitoring is over.
3. During the monitoring period, if the device is out of reagent, it will not tell the testing result. And the display board will show “Reagent lack”, reminding users to replace the reagent. If the reagent can't be replaced in time, the device will forcibly let the softener valve start regeneration after 10 hours.
4. When monitoring times reached 750, the buzzer and the screen will remind “Replace Reagent”. When monitoring times reached 801, monitoring stops, screen shows “Reagent Lack”. After changing the reagent, press  for 5 seconds under monitoring waiting condition(Keyboard unlock), the screen will be cleared and times will be zero after hearing “DI” sound.

●Remote Handling Output

When the outlet water fails to meet the requirements, the device will send the signal to the softener valve and make the valve start regeneration forcibly, so as to make sure the outlet water is qualified.

1.3. Service Conditions

Monitoring instrument should be used under the below conditions:

Items		Requirement
Working Conditions	Water Pressure	0.05MPa~0.4MPa
	Water Temperature	5℃~45℃
	Water Turbidity	<2FTU
	Water Quality	No corrosive acid or alkali
Working Environment	Environment Temperature	5℃~50℃
	Relative Humidity	≤95% (When temperature is 25℃)
	Electrical Facility	AC100~240V/50~60Hz
	Do not put the device near heat sources high humidity, corrosive, intense magnetic field or intense vibrations environment. And install it indoors.	

1.4. Product Structure and Technical Parameters

A. Product dimensions (The appearance is just for reference. It is subject to the real product)

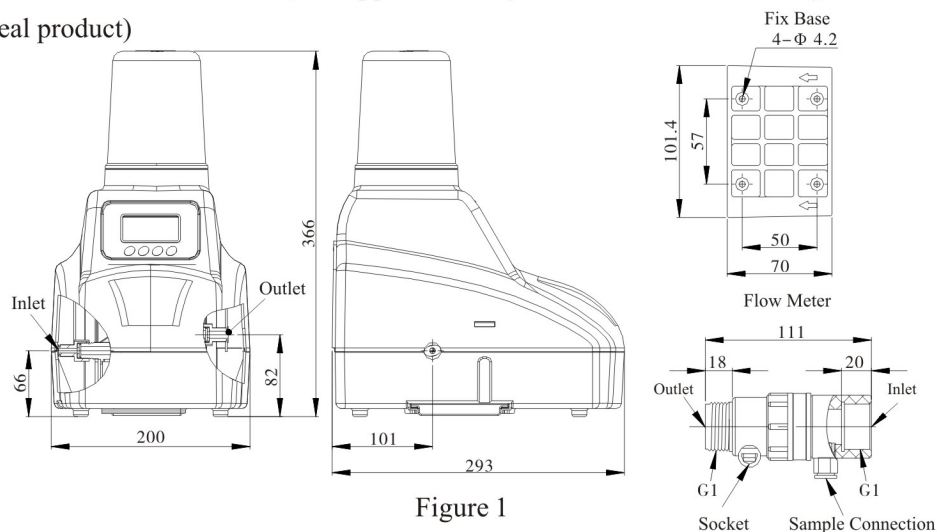


Figure 1

B. Technical Parameters

Control mode	Online monitoring	Water quality	No corrosive acid or alkali
Electrical facility	AC100~240V/50~60Hz	Inlet	φ 6 gas-type fitting
Transformer output	DC12V, 1.5A	Outlet	φ 8 gas-type fitting
Alarm output	DC5V active signal	Flow meter inlet	1" F
Alarm water hardness value	0.03 mmol/L	Flow-meter outlet	1" M
Water pressure	0.05~0.4MPa	Sample connection	φ 6 gas-type fitting
Water temperature	5~45°C	Reagent volume	450ml
Water turbidity	<2FTU	Quality guarantee period of reagent	12 months

Mode	A-01 mode: monitoring waiting time is directly set by users
	A-02 mode: by inputting the resin volume, water hardness, average water consumption per hour, the monitoring waiting time will be automatically calculated by the device. It is good for saving reagent by making the time short during the cycle of producing water and making the time long during the regeneration time.

Remark:

- 1.M:Male;F:Female;
- 2.Alarm water hardness value can be customized if need.

1.5. Installation

A. Installation notice

Before installation, please read all those instructions completely. Then prepare all materials and tools needed for installation.

The installation of product, pipes and circuits should be accomplished by professional to ensure the product can operate normally.

B. Device location

There are two kinds of installation: wall-mounted and table-mounted. Please make sure the device is installed horizontally and fixed.

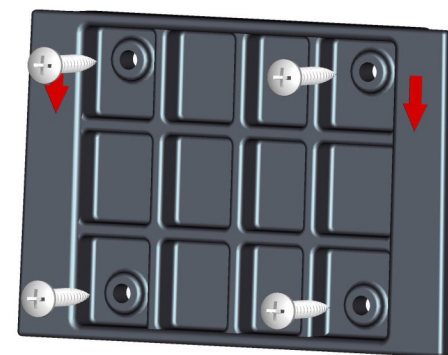


Figure 2

① Wall-mounted

- a. Take out the dead plate from the supporting accessories and fix the plate on the wall with expansion screws as the Figure 2 shows. (Please pay attention to the directions of arrows on the plate and make sure the directions of arrows are pointing down when it's installed.) Be sure the vertical length of the drain pipeline is more than 1.2m.
- b. After fixing the plate, please stick the device into the plate as the Figure 3 shows

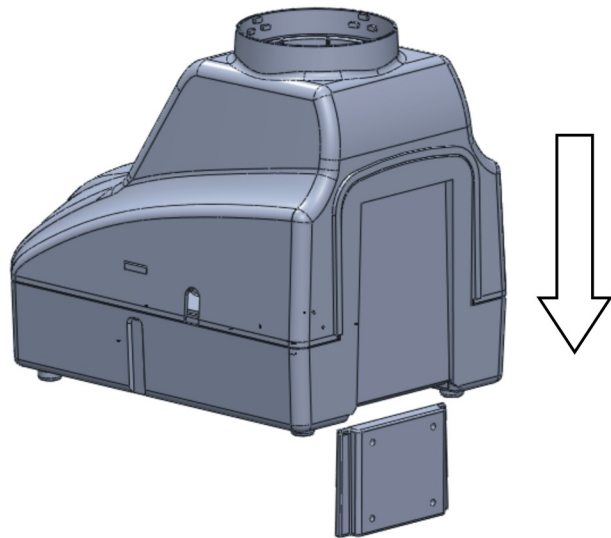
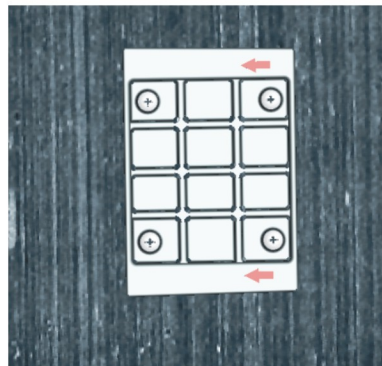


Figure 3



② Table-mounted

- a. As the Figure 4 shows, fix the dead plate on the platform with the screw. The arrow on the plate is the direction for device sticking into the plate. Please note the vertical height between platform and drain should be more than 1.2m.

- b. After fixing the dead plate, stick the device into the plate according to the direction of arrows.

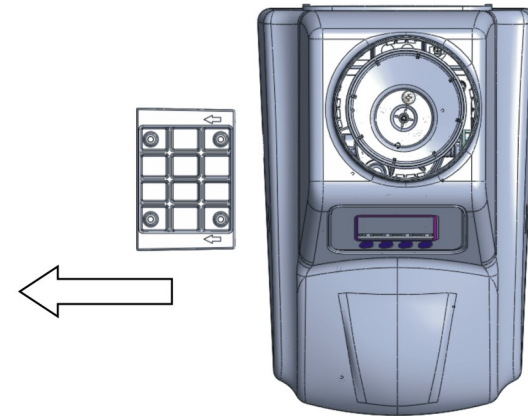


Figure 5

C. Installation of pipeline

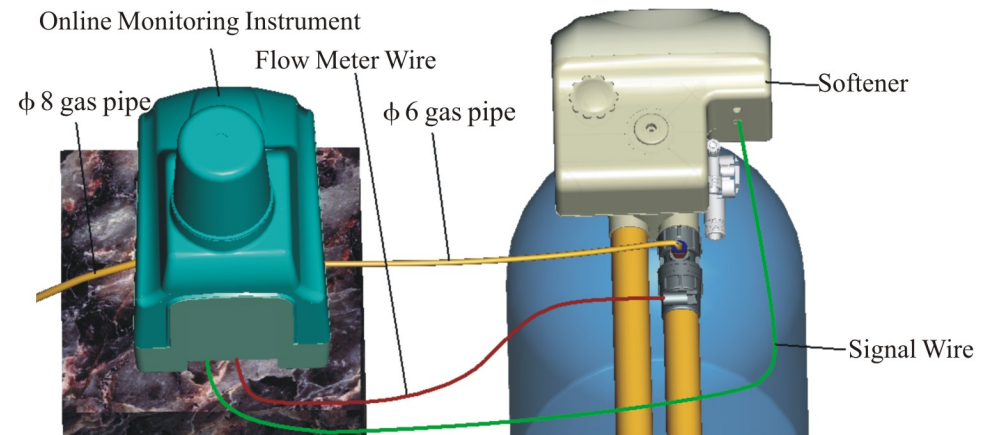


Figure 6

① Flow meter installation

As the Figure 6 shows, below 1.5 inch pipeline, directly connect the flowmeter with the outlet of softener valve; Above 1.5 inch pipeline, as the Figure 7 shows, please install the flow meter through the way of bypass.

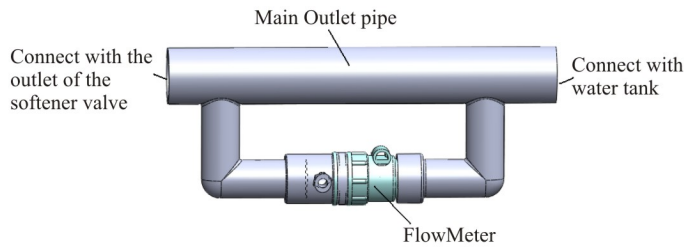


Figure 7

② Inlet and outlet installation

As the Figure 6 shows, take a certain distance of $\phi 6$ air pipeline, insert one side to sample connection port on flow meter, insert the other side on inlet of device; use $\phi 8$ air pipeline, insert one side to outlet of the device connect the other side with sewer. Please leave 20-40mm distance between the drain line and sewer. The drain pipeline must under the outlet, ensuring that water drains smoothly and will not form any water seal, to avoid warping and the length should not exceed 3 meters (as Figure 8 shows).

Remark: the inlet water pressure of the device should be controlled between 0.05 and 0.4MPa

③ Connection of flow meter

As the Figure 6 and Figure 9 shows, insert the flow meter probe into the probe fitting. The opposite end is connected with the control board of the monitoring device.



Figure 9

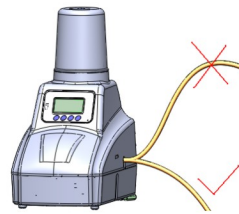


Figure 8

④ Connection of signal output

As the Figure 6 and Figure 10 shows, one end of the signal wire is connected with the control board of the monitoring device, and the opposite end is connected with the remote handling connector of the softener valve.

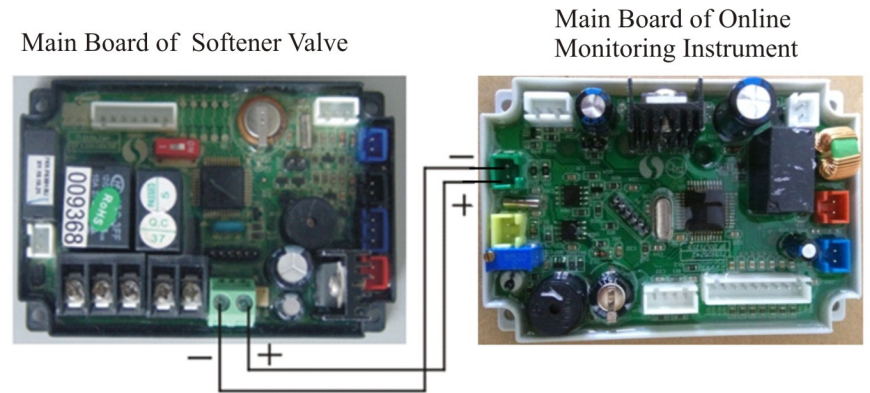


Figure 10

Connect the positive & negative terminals of the “Remote Handling Connector” of the softener valve with the positive & negative terminals of the “Signal Output Connector” of the online monitoring instrument

D. Installation and replacement of reagent

① Firstly, twist off the sealed cap of reagent bottle when install the reagent. (Pay attention to the arrow direction on the bottle, as the Figure 11 shows). Then remove the sealed cap (As the Figure 12 shows).

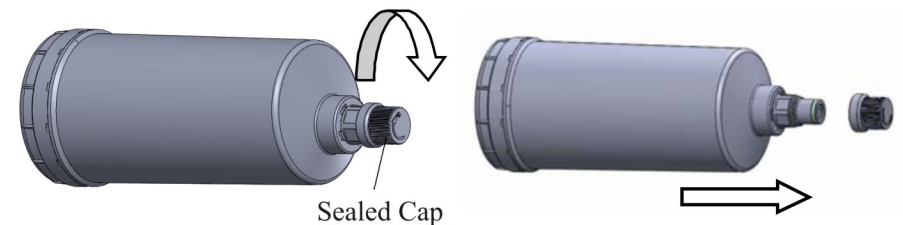


Figure 11

Figure 12

②As the Figure 13 shows, please insert the reagent bottle into the device (There is a check valve on the sealing surface of bottle, to avoid the reagent flowing out before inserting).

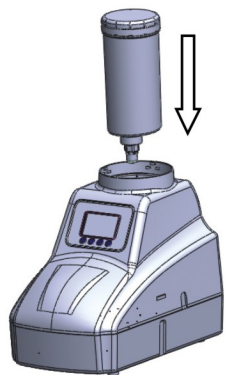


Figure 13

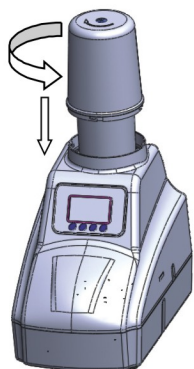
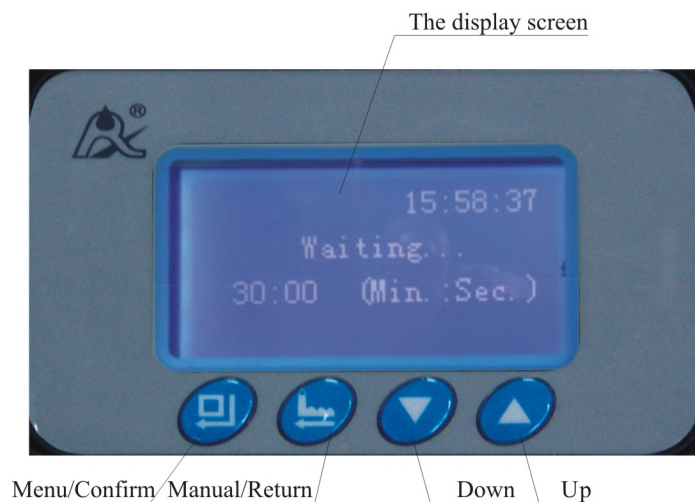


Figure 14

③As the Figure 14 shows, after inserting the reagent bottle in the device, please screw the bottle anticlockwise to fix it. (The arrow direction on the bottle is the direction to unscrew).

2. Basic Setting & Usage

2.1. The Function of PC Board



A. Button lock indicator

● light on, indicate the buttons are locked. At this moment, pressing any single button will not work.

● Solution: Press and hold both and for 5 seconds until the light off.

B. Menu/Confirm button

● In menu mode, press and enter program display mode, view all values by pressing or

● In program display mode, press and enter program set mode, adjust all values by pressing or

● Press after all programs are set, and hearing the voice “DI” means all settings are successful and return program display mode.

C. Manual/Return button

● Press can proceed to next step in any status.

● Press in program display mode, and it will return in Service; Press in program set mode, and it will return program display mode.

● Press while adjusting the value, then it will return program display mode directly without saving value

D. Down and Up

● In program display mode, press or to view all values

● In program set mode, press or to adjust values.

● Press and hold both or for 5 seconds to unlock the Button Lock.

● When the device gives alarm of reagent shortage, press for 5 seconds, the alarm will be canceled.

2.2. Basic Setting & Usage

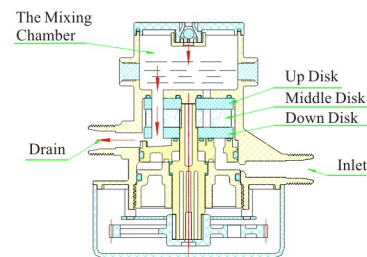
A. Parameter Specification

Item	Factory Default	Parameter Set Range	Instruction
Clock	Current Time	00:00~23:59	Current Time
Mode	A-01	A-01/02	/
Empty Time A (Waiting Time)	30:00(Min.: Sec.)	0~999:59	Suitable for A-01 Working Mode.
Reagent Lack Alarm	1.80V	0.00~5.00V	Default settings, needn't to reset
Hardness Alarm	0.28V	0.00 ~ 5.00V	
Resin Volume	500L	5 ~ 1000L	Suitable for A-02 working mode
Water Hardness	1.2mmol/L	0.1 ~ 30.0 mmol/L	
Average Water Use	6.0m ³ /h	1.0 ~ 100.0 m ³ /h	
Washing Time A	00:10(min.: sec.)	0:00 ~ 59:59 (min:sec)	Default settings, needn't to reset.
Empty Time B	00:15(min.: sec.)	0:00 ~ 59:59 (min:sec)	
Reagent Enter Time	Adjusted by system automatically, needn't to rest.		
Water Enter Time	00:10(min.: sec.)	0:00 ~ 59:59 (min:sec)	
Testing Time	00:50(min.: sec.)	0:00 ~ 59:59 (min:sec)	
Washing Time B	00:10(min.: sec.)	0:00 ~ 59:59 (min:sec)	
Testing Times	/		

3. Application and Illustration

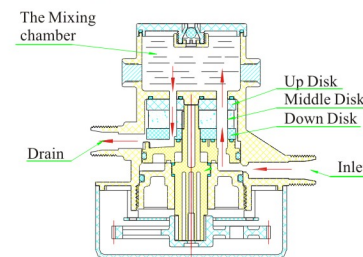
3.1 Flow Chart and Principle

A. Empty A (Waiting)



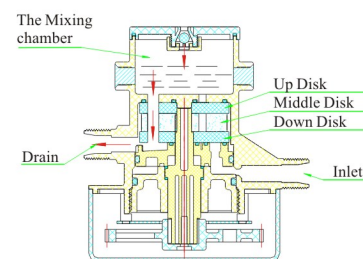
Drain out the residual water from the mixing chamber after Washing B. At the same time, the program is in the monitoring waiting status. the display screen shows the countdown, thus the rest of time before next monitoring (Only for the condition that water flowing out from the outlet of softener valve).

B. Washing A



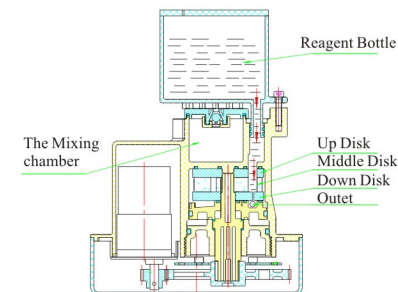
Under this status, the device will clean the pipeline firstly by new water. The new water flow into the mixing chamber from the inlet and flow out through the outlet. In this process, the mixing chamber will be cleaning.

C. Empty B



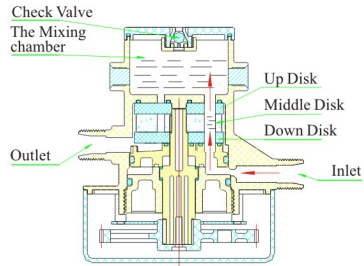
Drain out the residual water from the mixing chamber after Washing A.

D. Reagent Enter



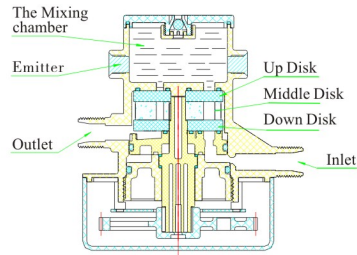
Under this status, the through-hole in the moving disk is opening to the reagent in the reagent bottle, making a certain amount of reagent and fed in.

E、Water Enter



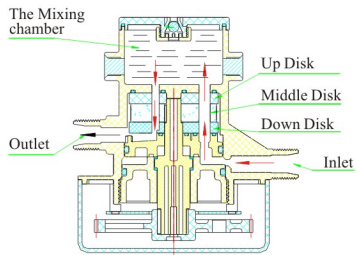
When feed in the water sample, the water sample from the outlet of softener follow into the inlet of the device, and mix the reagent in the mixing chamber. After the chamber being filled, the check valve will close automatically and stop water inflowing.

F、Testing



After mixing the water sample and reagent for 50 seconds, the light sensor of the receiver turns the optical signal into the voltage signal. When the voltage exceeds the alarm value, it will give an alarm and output DC5V active signal.

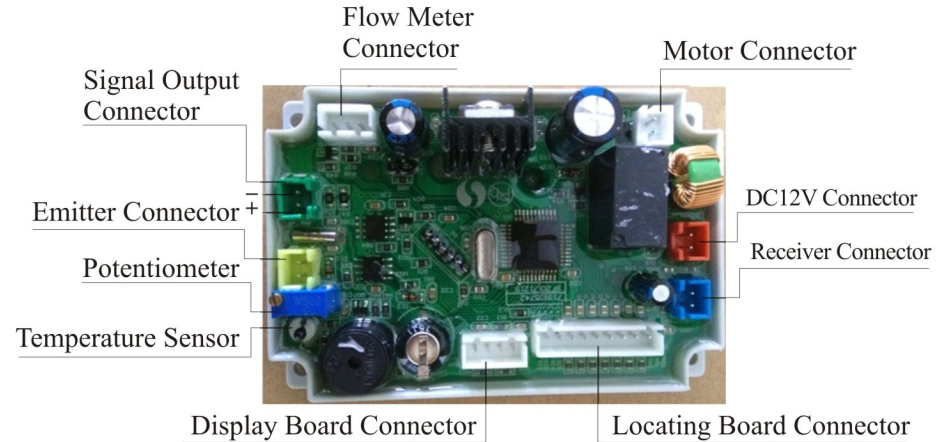
G、Washing B



The water flows into the mixing chamber from the inlet and flows out through the outlet, cleaning the mixing chamber and preparing for the next monitoring. After this status, the device will go to the Empty A (Monitoring Waiting), and drain out the water from the chamber cavity for next monitoring.

3.2. The Function of PC Board

Open the front cover of device, you will see the main control board and connection port as below:



Functions of main connector

Function	Application	Illustration
Signal output Connector	Control the softener valve regeneration	It is used for online inspection system, PC connection, and realize automatically or remotely controlling valve.
Flow Meter Connector	Receive the signal from the flow meter	In the pending monitoring status, when receives the signal, the display screen shows the countdown. If there is no signal, the countdown will not show. During the monitoring, if there is no signal, the testing will be ineffective.

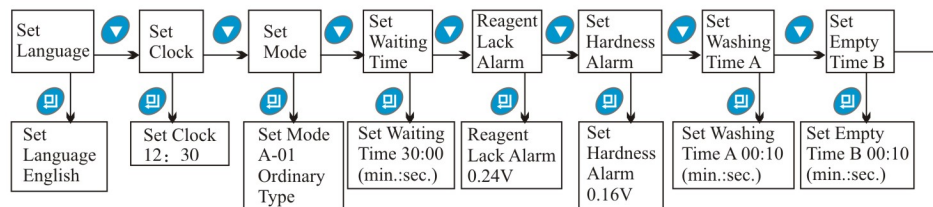
Note:

1. During the testing analysis, the voltage value can be adjusted by revolving potentiometer, it is default setting, needn't to reset.
2. When replacing receiver or emitter connector, it requires softener flowing water qualified and running the testing manually. While enter into testing analysis position, setting testing voltage value to 0.18V through adjusting the potentiometer.

3.3 Parameter Enquiry

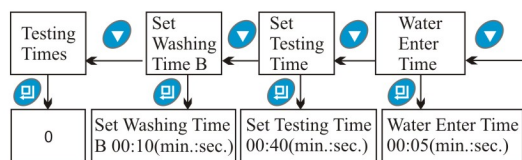
3.3.1 Parameter Enquiry

In menu mode, press and enter program display mode; Select the item that you need inquiry and press



Note:

When working mode is A-02, without item of “Set Waiting Time”, but there are items of “Resin Volume”, “Water Hardness” and “Average Water Use”.










































3.3.2 Parameter Setting

In program display mode, press and enter into program set mode. Press or to adjust the value:

Item	Process Steps	Symbol
Set Language	1. Press to enter program display mode, select “Set Language”; 2. Press , select language through or ; 3. Press , language transformed successfully and back to Menu, press to returning to working condition.	Set Language English 中文
Set Clock	1. Press to enter into program display mode; The item of “Set Clock” will be selected by system automatically. 2. Press , hour value flashing, adjust the hour value through or ; Press again, minute value flashes, adjust the minute value through or ; 3. Press and finish the adjustment, press to turn back to working condition.	Set clock 12:10

Set Mode	1. Press and enter into program display mode, select the “Set Mode” item; 2. Press and the “01” value flashes, through or to adjust the hour value; 3. Press and finish the adjustment, press to turn back to working condition	Set Mode A-01 Ordinary Type
Set Waiting Time	1. Press and enter into program display mode, select the “Waiting Time” item; 2. Press and the minute value flashes. Through or to adjust the minute value; Press again, second value flashes, through or to adjust the second value; 3. Press and finish the adjustment, press to turn back to working condition.	Set Waiting Time 30:00 (Min.:Sec.)
Reagent Lack Alarm	1. Press and enter into program display mode, select the “Reagent Lack Alarm” item; 2. Press , the value flashes, through or to adjust the value; 3. Press and finish the adjustment, press to turn back to working condition	Reagent Lack Alarm 0.xxV
Set Hardness Alarm	1. Press and enter into program display mode, select the “Set Hardness Alarm” item; 2. Press , the value flashes, through or to adjust the value; 3. Press and finish the adjustment, press to turn back to working condition	Set Hardness Alarm 0.xxV
Set Washing Time A	1. Press and enter into program display mode, select the “Set Washing Time A” item; 2. Press and the minute value flashes. Through or to adjust the minute value; Press again, second value flash, through or to adjust the second value; 3. Press and finish the adjustment, press to turn back to working condition.	Set Washing Time A 00:10 (Min.: S ec.)


Set Empty Time B	<p>1. Press  and enter into program display mode, select the “Set Empty Time B” item;</p> <p>2. Press  and the minute value flashes. Through  or  to adjust the minute value; Press  again, second value flashes, through  or  to adjust the second value;</p> <p>3. Press  and finish the adjustment, press  to turn back to working condition.</p>	<div style="border: 1px solid black; padding: 5px; text-align: center;"> Set Empty Time B 00:10 (Min.: Sec.) </div>
Water Enter Time	<p>1. Press  and enter into program display mode, select the “Water Enter Time” item;</p> <p>2. Press  and the minute value flashes. Through  or  to adjust the minute value; Press  again, second value flashes, through  or  to adjust the second value;</p> <p>3. Press  and finish the adjustment, press  to turn back to working condition.</p>	<div style="border: 1px solid black; padding: 5px; text-align: center;"> Water Enter Time 00:05(Min.:Sec.) </div>
Set Testing Time	<p>1. Press  and enter into program display mode, select the “Testing & Analysis Time” item;</p> <p>2. Press  and the “minute” flashes, adjust it through  or ; Press  again, “second” flashes, adjust it value through  or ;</p> <p>3. Press  and finish the adjustment, press  to turn back to working condition.</p>	<div style="border: 1px solid black; padding: 5px; text-align: center;"> Testing & Analysis Time 00:05 (min.: sec.) </div>
Set Washing Time B	<p>1. Press  and enter into program display mode, select the “Set Washing Time B” item;</p> <p>2. Press  and the minute value flashes. Through  or  to adjust the minute value; Press  again, second value flash, through  or  to adjust the second value;</p> <p>3. Press  and finish the adjustment, press  to turn back to working condition</p>	<div style="border: 1px solid black; padding: 5px; text-align: center;"> Set Washing Time B 00:10 (Min.: Sec.) </div>

Testing Times	<p>1. Press  and enter into program display mode, select the “Testing Time” item;</p> <p>2. Press , check the testing times;</p> <p>3. Press  to return to working status.</p>	<div style="border: 1px solid black; padding: 5px; text-align: center;"> Testing Times 0 </div>
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3.4. Trial running

A. Firstly, disconnect the signal wire from the control board of the monitoring device.

B. Switch on power and make sure the softener valve is in service status.


C. Press  and make the device start monitoring. Make the device forcibly monitoring four times through manual control, so as to clean the impurity in the device which may affect the result of testing.

D. Connect the signal wire to the control board of the monitoring device.

E. The device shows the countdown, thus the rest of time before next monitoring Remark:

● If the device is out of service chronically, the reagent should be kept in the refrigerator under the temperature 2°C to 6°C. The trial running is needed when the device restarts using again.

● As the device adopt periodic interval monitoring, so it is possible that the unqualified water flows into the water tank in one or more monitoring period.

● When the device give alarm of the reagent shortage, the reagent should be replaced in time. Or else, the device will send the signal and make the softener valve starting regeneration forcibly after 10 hours; After replacing the reagent, please press  for 5 seconds to turn alarm off.

● The guarantee date of reagent is one year. The volume of reagent is about 450ml and usually can be used for three months.

● When power off for a long time, please check the outlet of device whether any reagent flowing out. If it did, which indicates the position of reagent feeding is power off and the bottle of reagent should be taken down.

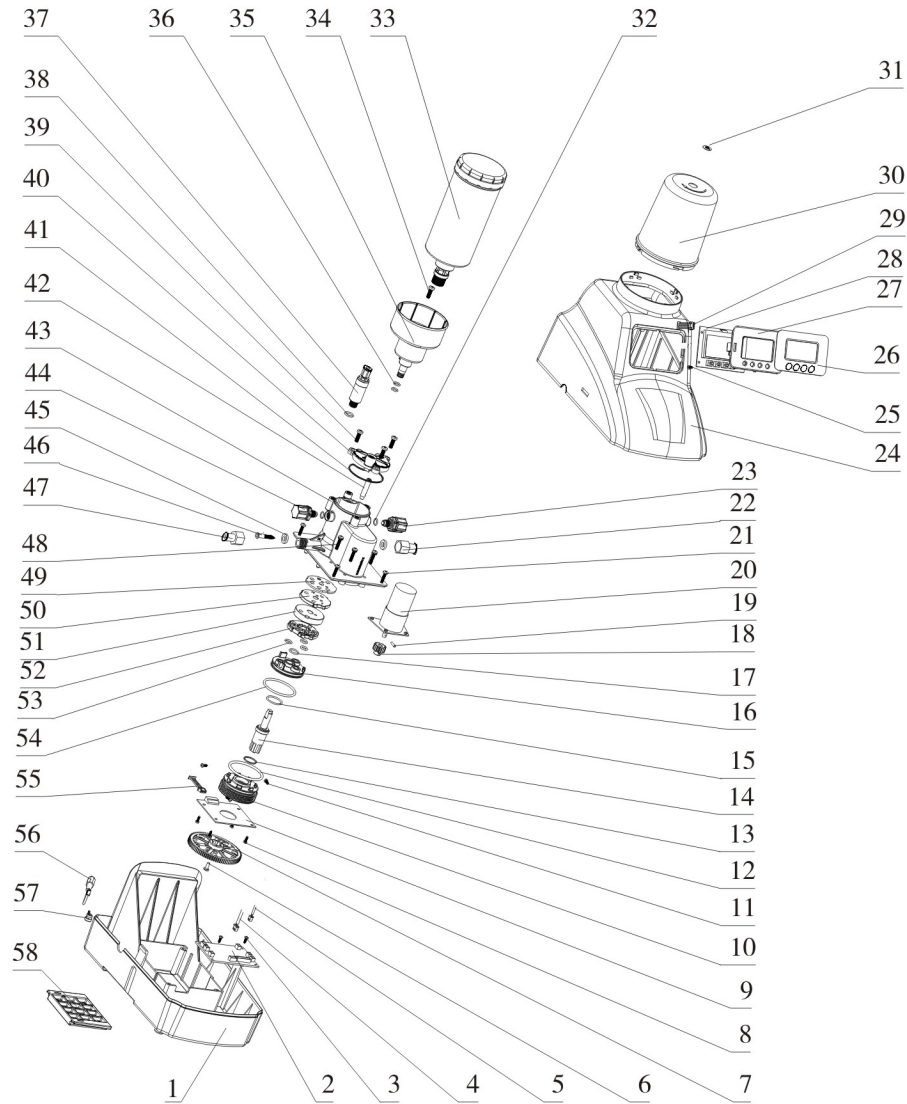
3.5. Trouble-Shooting

Problem/Code	Canse	Solution
E1 Flash	A. Wiring of locating board with controller fails to work. B. Locating board damaged C. Mechanical driven failure. D. Faulty control board. E. Wiring of motor with controller is fault. F. Motor damaged.	A. Replace wiring. B. Replace locating board. C. Check and repair mechanical part. D. Replace control board. E. Replace wiring. F. Replace motor.
E2 Flash	A. Locating board damaged B. Wiring of locating board with controller fails to work C. Control board is faulty	A. Replace locating board. B. Replace wiring. C. Replace control board.
E3/E4 Flash	Control board is faulty.	Replace control board.
No display on front panel.	A. Wiring of display board with controller fails to work. B. The transformer damaged C. Control board damaged. D. Display board damaged	A. Check and replace wiring. B. Replace transformer. C. Replace control board. D. Replace display board.
E5 Flash	The water continuously fails to meet the requirement for two tims.	Restart the power.
E6 Flash	A. Emitter is broken. B. Receiver is broken. C. Control board is broken. D. There is no water flowing into chamber during the testing position	A. Replace the emitter B. Replace the receiver C. Replace the control board D. Reconnect the power

E7 Flash	A. There is water in the plug of the acceptor which causes short circuit. B. The lamp of the acceptor is short circuit.	A. Clean and dry the plug and check the leakage. B. Replace the lamp.
Shortage of reagent	A. the reagent is used up. B. There are foreign materials blocking the through- hole of upper disk C. Low inlet water pressure. D. There are foreign materials blocking the through- hole of lower disk	A. Replace the reagent. B. Clean the foreign materials. C. Increase inlet water pressure D. Clean the foreign materials.
There are water flowing out from the outlet in the pending monitoring status, feed in reagent status or monitoring status	The device is leaking.	check and maintain the device or replace the body.

3.6. Assembly & Parts

① 44710 Assembly & Parts



Explosive view:
Parts and Components

Item	Description	Part No.	Quantity
1	Dust Cover	8005021	1
2	Control Board	6382052	1
3	Screw, Cross	8909008	2
4	Flow Meter Cable	6386008	1
5	Interlock Wire	5515003	1
6	Screw, Cross	8902025	1
7	Gear	5241005	1
8	Screw, Cross	8909008	4
9	Locating Board	6380026	1
10	Fitting Nut	8092031	1
11	Screw, Cross	8909008	3
12	O-ring	8378107	1
13	Anti-friction Washer	8216020	2
14	Shaft	8258028	1
15	O-ring	8378168	1
16	Cover	8315024	1
17	O-ring	8378154	1
18	Small Gear, Motor	8241015	1
19	Pin	8993003	1
20	Motor	6158011	1
21	Screw, cross	8909003	4
22	Gas-type Fitting	5455004	1
23	Emitter	5404001	1
24	Control Box	8300022	1
25	Screw, Cross	8909008	1
26	Label	8865055	1
27	Fixed Part	8109034	1
28	Display Board	6381006	1
29	Wire for Display Board	5512002	1
30	Shell	8300023	1
31	Label	8860001	1
32	O-ring	8378004	2
33	Reagent Bottle	5359001	1
34	Screw, Cross	8902029	1

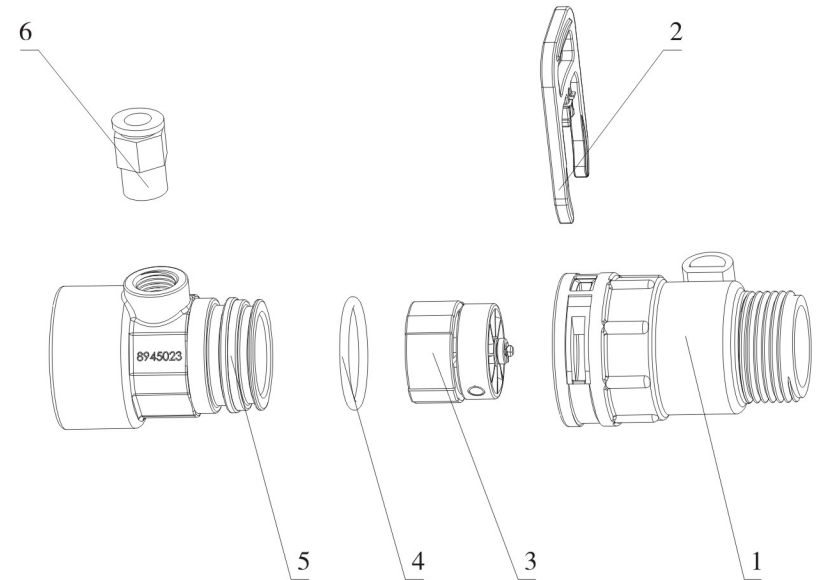
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35	Fixed Part	8109033	1
36	O-ring	8378016	2
37	Air Release Valve	5467003	1
38	O-ring	8378169	1
39	Screw, Cross	8902029	3
40	Cover	8315023	1
41	Seal Ring	8371025	1
42	Distributor	8339019	1
43	Valve Body	5022045	1
44	Acceptor	5404002	1
45	Seal Ring	8371070	2
46	Filter Screen	5336011	1
47	Gas-type Fitting	5455003	1
48	Screw, Cross	8902007	4
49	Seal Ring	8370070	1
50	Fixed Disk	8469008	1
51	Moving Disk	8459046	1
52	Fixed Disk	8469005	1
53	O-ring	8378147	3
54	O-ring	8378149	1
55	Wire for Locating Board	5511013	1
56	Wire for Power	5513003	1
57	Wire Clip	8126004	1
58	Dead Plate	8109035	1

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② Flow Meter Assembly & Parts

Explosive view:



Parts and Components

Item	Description	Part No.	Quantity
1	Shell	8002001	1
2	Clip	8270004	1
3	Impeller	5295011	1
4	O-ring	8378081	1
5	Animated Nut	8945023	1
6	Gas-type Fitting	5455002	1


4. Warranty Card

Dear client:

This warranty card is the guarantee proof of RUNXIN brand online monitoring instrument. It is kept by client self. You could get the after-sales services from the supplier which is appointed by RUNXIN manufacturer. Please keep it properly. It couldn't be retrieved if lost.

It couldn't be repaired free of charge under the below conditions:

1. Guarantee period expired.(One year).
2. Damage resulting from using, maintenance, and keeping that are not in accordance with the instruction.
3. Damage resulting from repairing not by the appointed maintenance personnel.
4. Content in guarantee proof is unconfirmed with the label on the real good or be altered.
5. Damage resulting from force majeure.

Product Name	 Online Monitoring Instrument for Water Treatment Systems		
Model		Code of Valve Body	
Purchase Company Name		Tel/Cel.	
Problem			
Solution			
Date of Repairing		Date of Accomplishment	Maintenance Person Signature

When product need warranty service, please fill in the below content and sent this card together with the product to the appointed suppliers or Runxin company

User		Tel / Cel	
Purchaser		Tel / Cel	
Product Mode	Code of valve body		
Problem Description			