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Online Monitoring Instrument for Water Treatment Systems

44710 (Old Model: F84)



Instruction Manual

WENZHOU RUNXIN MANUFACTURING MACHINE CO.,LTD

ADD: Jinger Road, Shatou Group, Lishui, Lucheng District, Wenzhou, Zhejiang, China.
Tel: +86-577-88635628 88630038 Fax: +86-0577-88633258
[Http://www.run-xin.com](http://www.run-xin.com) Email:sales@run-xin.com



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

00WRX-466-510

Catalogue

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Notice

- To ensure normal operation of the valve, please consult with professional installation or repairing personnel before use it.
- If there are any of pipeline engineering and electric works, there must be finished by professional at the time of installation.
- Do not use the device with the water that is unsafe or unknown quality.
- Do not put the device near heat sources or surroundings with 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 under the water temperature between 5~45℃, water pressure 0.1~0.2MPa. 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 disassembly the reagent from the device and keep it away from sunlight, put in the cool place. If it is possible, please put the reagent in the refrigerator
- The lubricant that used in the product is methyl silicone. When maintenance, other lubricant is forbidden to use.
- When the attached cables of this product and transformer are changed, they must be changed to the one that is from our factory.

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 "▶" to realize the forced monitor

● 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; when there is no water from the outlet, the device will be in the waiting condition 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.

After starting monitoring, in any status, if the device find there is no water for more than 5 seconds, the device will not judge the testing result.

That is the display board will not show "This testing is qualified or unqualified" after monitoring is over.

During the monitoring period, if the device is short of reagent, the device will not judge 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

● 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	0.1MPa~0.2MPa
	Water Temperature	5°C~45°C
	Water Turbidity	<2FTU
	Water Quality	No corrosive acid or alkali
Working Environment	Environment Temperature	5°C~50°C
	Relative Humidity	≤95% (When temperature is 25°C)
	Electrical Facility	AC100~240V/50~60Hz
	Do not put the device near heat sources or surroundings with 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)

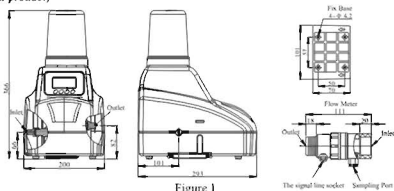


Figure 1

B. Technical Parameters

Control mode	On-line 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	0.1~0.2MPa	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 thread; F: Female thread;

2. Alarm water hardness value can be required if need.

1.5. Installation

A. Installation notice

Before installation, read all those instructions completely. Then obtain 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.

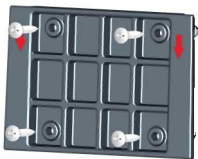


Figure 2

① Wall-mounted

- 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 1.2mm.
- After fixing the plate, please stick the device into the plate as the Figure 3 shows

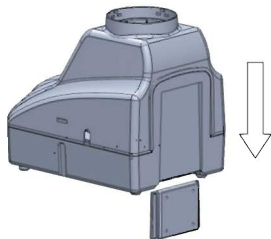
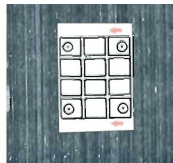


Figure 3



② Table-mounted

- 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.

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

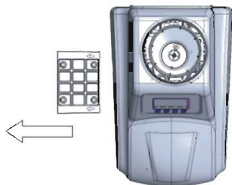


Figure 5

C. Installation of pipeline

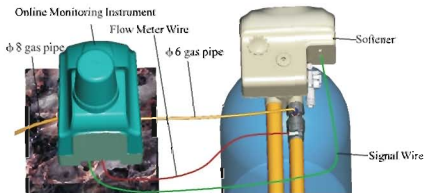


Figure 6

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.

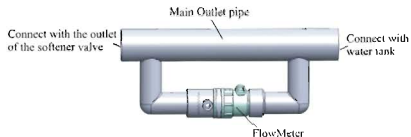


Figure 7

② Inlet and outlet installation

As the figure 6 shows, take a certain distance of $\phi 6$ air pipeline, insert one side of sampling port on flow meter. insert the other side on inlet of the 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 line should be unhindered and avoid warping and the length should not exceed 3 meters.

Remark: The inlet water pressure of the device should be controlled between 0.1 and 0.2MPa

③ Connection of flow meter

As the Figure 6 and Figure 8 shows, insert the flow meter probe into the probe fitting. The opposite end is connected with the control board of the monitoring device. ϕ

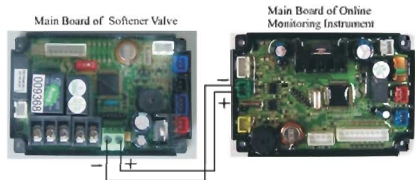
Flow Meter connector



Figure 8

④ Connection of signal output

As the Figure 6 and Figure 9 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.



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

Figure 9

D. Reagent installation and replacement

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 10 shows). Then remove the sealed cap (As the Figure 11 shows).



Figure 10

Figure 11

② As the Figure 12 shows, please insert the reagent bottle into the device (On the sealing surface of bottle, there is a check valve to avoid the reagent flowing out before inserting).

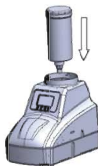


Figure 12

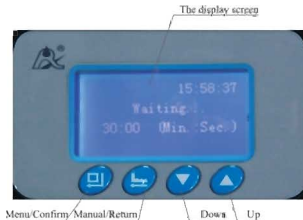


Figure 13

③ As the Figure 13 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



Menu/Confirm Manual/Return




Down Up

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 then the voice “DI” means all setting are success and return program display mode.



C.  Manual/Return button

● Press  in any status, it can proceed to next step.

● 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 lift the Button Lock status.

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

2.2. Basic Setting & Usage

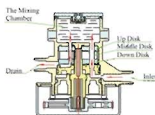
A. Parameter Specification

Item	Factory Default	Parameter Set Range	Instruction
Time of day	Current Time	00:00~23:59	current time
Working mode	A-01	A-01/02	/
Empty A (Monitoring Waiting) time	30:00 (Min.: Sec.)	0~299:59	It's only for A-01 working mode.
Hardness Alarm Value	Random	0.00~5.00V	The parameters have been set by factory. Needn't to reset.
Reagent Lack Alarm Value	Random	0.00~5.00V	
Resin Volume	500L	5~1000L	It's only for A-02 working mode.
Raw Water Hardness	1.2mmol/L	0.1~30.0 mmol/L	
Average Water Consumption	6.0m ³ /h	1.0~100.0 m ³ /h	
Washing Time A	00:10 (Min.: Sec.)	0:00~59:59 (Min.: Sec.)	The parameters have been set by factory. Needn't to reset.
Empty Time B	00:10 (Min.: Sec.)	0:00~59:59 (Min.: Sec.)	
Reagent Enter Time	00:05 (Min.: Sec.)	0:00~59:59 (Min.: Sec.)	
Water Enter Time	00:15 (Min.: Sec.)	0:00~59:59 (Min.: Sec.)	
Testing Time	00:40 (Min.: Sec.)	0:00~59:59 (Min.: Sec.)	
Washing Time B	00:10 (Min.: Sec.)	0:00~59:59 (Min.: Sec.)	

3. Application and Illustration

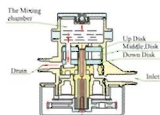
3.1 Flow Chart and Principle

A. Empty A (Monitoring Waiting)



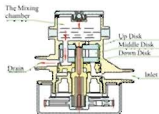
Drain out the residual water from the mixing chamber after Washing B. At the same time, the program is in the monitoring waiting status, the display screen shows the countdown, thus the rest of time before next monitoring (Only for the condition that there are water flowing out from the outlet of softener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

B. Washing A



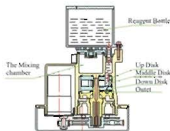
Under this status, the device will clean the pipeline firstly by new water. The new water flow into the mixing chamber from the inlet and flow out through the outlet. In this process, the mixing chamber will be cleaning.

C. Empty B



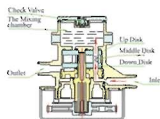
Drain out the residual water from the mixing chamber after Washing A.

D. Reagent Enter



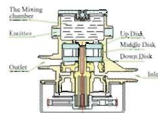
Under this status, the through-hole in the moving disk is open to the reagent in the reagent bottle, making a certain amount of reagent be fed in

E. Water Enter



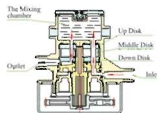
When feed in the water sample, the water sample from the outlet of softener follow into the inlet of the device, and mix the reagent in the mixing chamber, after the chamber being filled, the check valve will closed automatically and stop water inflowing.

F. Testing



After mixing the water sample and reagent for 40 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 a alarm and output DC5V active signal.

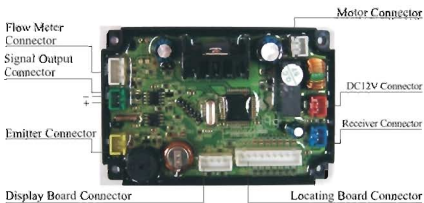
G. Washing B



The water flow into the mixing chamber from the inlet and flow 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 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:



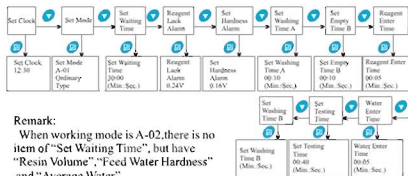
Functions of main connector

Function	Application	Illustration
Connector of Signal Output	Output signal to control the softener valve regeneration	It is used for on-line inspection system, PC connection, and realize automatically or remote controlling valve.
Connector of Flow-meter	Receive the signal form the flow-meter	In the pending monitoring status, when receive 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.

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 **⏩**



Remark:

When working mode is A-02, there is no item of "Set Waiting Time", but have "Resin Volume", "Feed Water Hardness" and "Average Water"

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 Clock	<ol style="list-style-type: none"> Press ⏩ to enter into program display mode; The item of "Set Clock" will be selected by system automatically. Press ⏪, hour value flash, through ⏪ or ⏩ to adjust the hour value; Press ⏩ again, minute value flash, through ⏪ or ⏩ to adjust the minute value; Press ⏩ and finish the adjustment, press ⏪ to turn back to working condition 	<div style="border: 1px solid black; padding: 5px; text-align: center;"> Set Clock 12: 30 </div>

Set Mode	<ol style="list-style-type: none"> 1. Press OK and enter into program display mode, select the "Set Mode" item; 2. Press OK and the "01" value flash, through ▲ or ▼ to adjust the hour value; 3. Press OK and finish the adjustment, press ESC to turn back to working condition 	<p>Set Mode A-01 Ordinary Type</p>
Set Waiting Time	<ol style="list-style-type: none"> 1. Press OK and enter into program display mode, select the "Waiting Time" item; 2. Press OK and the minute value flashes. Through ▲ or ▼ to adjust the minute value; Press OK again, second value flash, through ▲ or ▼ to adjust the second value; 3. Press OK and finish the adjustment, press ESC to turn back to working condition. 	<p>Set Waiting Time 30:00 (Min.: Sec.)</p>
Reagent Lack Alarm	<ol style="list-style-type: none"> 1. Press OK and enter into program display mode, select the "Reagent Lack Alarm" item; 2. Press OK, the value flashes, through ▲ or ▼ to adjust the value; 3. Press OK and finish the adjustment, press ESC to turn back to working condition 	<p>Reagent Lack Alarm 0.XXV</p>

Set Hardness Alarm	<ol style="list-style-type: none"> 1. Press OK and enter into program display mode, select the "Set Hardness Alarm" item; 2. Press OK, the value flashes, through ▲ or ▼ to adjust the value; 3. Press OK and finish the adjustment, press ESC to turn back to working condition 	<p>Set Hardness Alarm 0.XXV</p>
Set Washing Time A	<ol style="list-style-type: none"> 1. Press OK and enter into program display mode, select the "Set Washing Time A" item; 2. Press OK and the minute value flashes. Through ▲ or ▼ to adjust the minute value; Press OK again, second value flash, through ▲ or ▼ to adjust the second value; 3. Press OK and finish the adjustment, press ESC to turn back to working condition. 	<p>Set Washing Time A 00:10 (Min.: Sec.)</p>
Set Empty Time B	<ol style="list-style-type: none"> 1. Press OK and enter into program display mode, select the "Set Empty Time B" item; 2. Press OK and the minute value flashes. Through ▲ or ▼ to adjust the minute value; Press OK again, second value flash, through ▲ or ▼ to adjust the second value; 3. Press OK and finish the adjustment, press ESC to turn back to working condition. 	<p>Set Empty Time B 00:10 (Min.: Sec.)</p>

Reagent Enter Time	1. Press ⏻ and enter into program display mode, select the "Reagent Enter Time" 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.	Reagent Enter Time 00:05 (Min.: S ec.)
Water Enter Time	1. Press ⏻ and enter into program display mode, select the "Water Enter Time" 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.	Water Enter Time 00:15 (Min.: S ec.)
Set Testing Time	1. Press ⏻ and enter into program display mode, select the "Set Testing Time" 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 Testing Time 00:50 (Min.: S ec.)

Set Washing Time B	1. Press ⏻ and enter into program display mode, select the "Set Washing Time B" 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 B 00:10 (Min.: S ec.)

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 in out of service chronically, the reagent should be kept in the refrigerator under the temperature 2℃ to 6℃. When the device is put into use again, the trial running is needed.
- As the device adopt periodic interval monitoring, so it is possible that the unqualified water flow 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 start regeneration forcibly after 10 hours.
- The guarantee year of reagent is one year. The volume of reagent is about 450ml and usually can be used for three month.
- When power off for a long time, please check whether there is reagent flowing out from the outlet of device. If the reagent is found, it indicates the device is in feed in reagent status when the power is off.

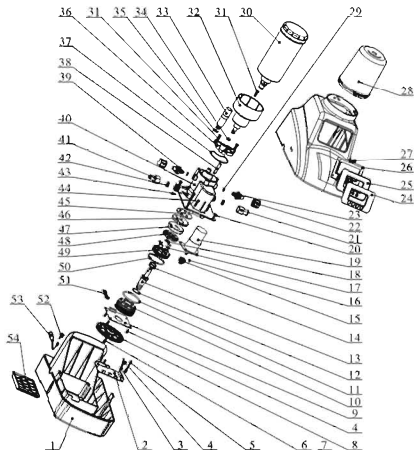
3.5. Trouble-Shooting

Problem/Code	Solution	Cause
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 times.	Restart the power.
E6 Flash	A. Emitter is broken. B. Receiver is broken. C. Control board is broken.	A. Replace the emitter. B. Replace the receiver. C. Replace the control board.

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.	A. Replace the reagent. B. 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:

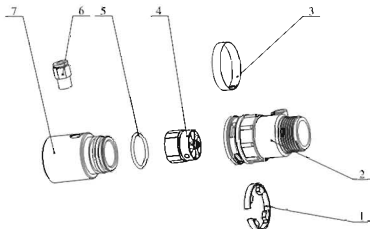
Parts and Components

Item	Description	Part No.	Quantity
1	Dust Cover	8005021	1
2	Control Board	6382012	1
3	Signal Line	5515001	1
4	Screw, Cross	8909008	6
5	Flow-meter Wire	6386008	1
6	Screw, Cross	8902025	1
7	Spring Washer	8953003	1
8	Gear	5241005	1
9	Locating Board	6380026	1
10	Fitting Nut	8092031	1
11	O-ring	8378107	1
12	O-ring	8378168	1
13	Shaft	8258028	1
14	Anti-friction Washer	8216020	2
15	Small Gear, Motor	8241015	1
16	Pin	8993003	1
17	O-ring	8378147	3
18	O-ring	8378154	1
19	Motor	6158011	1
20	Screw, Cross	8909003	4
21	Gas-type Fitting	8455004	1
22	Blind Nut	8940024	2
23	Emitter	5404001	1
24	Label	8865032	1
25	Fixed Part	8109034	1
26	Display Board	6381006	1
27	Wire for Display Board	5512002	1
28	Shell	8300023	1
29	O-ring	8378181	2
30	Reagent Bottle	5359001	1
31	Screw, Cross	8902029	4
32	Fixed Part	8109033	1
33	Air Release Valve	5467003	1
34	O-ring	8378004	2

35	O-ring	8378169	1
36	Cover	8315023	1
37	Seal Ring	8371025	1
38	Distributor	8339019	1
39	Acceptor	5404002	1
40	Valve Body	5022045	1
41	Gas-type Fitting	5455003	1
42	Seal Ring	8371011	2
43	Screw, Cross	8909008	3
44	Screw, Cross	8902007	4
45	Seal Ring	8370070	1
46	Fixed Disk	8469008	1
47	Moving Disk	8459046	1
48	Fixed Disk	8469005	1
49	Cover	8315024	1
50	O-ring	8378149	1
51	Wire for Locating Board	5511002	1
52	Wire Clasps	8126004	3
53	Wire for Power	5513003	1
54	Fixed Plate	8109035	1

② Flow Meter Assembly & Parts

Explosive view:



Parts and Components

Item	Description	Part No.	Quantity
1	Clip	8270001	1
2	Shell	8002001	1
3	Ferrule	8270002	1
4	Impeller Assembly	5295001	1
5	O-ring	8378081	1
6	Gas-type Fitting	5455002	1
7	Animated Connector	8945023	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			