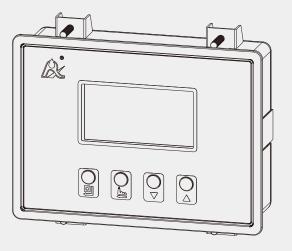




Multi-valves Controller

Model: F131



User Manual

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

0WRX.466.715

WENZHOU RUNXIN MANUFACTURING MACHINE CO.,LTD

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Catalogue

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1. Product Overview

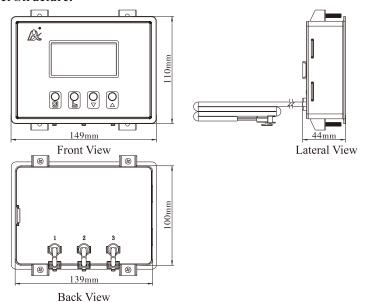
1.1 Main Application & Applicability

Multi-valves controller is suitable for the RO pretreatment system, which can intelligently control filtration and softening process

1.2 Product Characteristics

Multi-valves controller is consisted of one controller and three valves. The display and operation is concentrated on the controller, which is more convenient and efficient.

1.3 Product Structure:



1.4 Installation

A. Installation Notice

Before installation, please completely read this manual, relevant filter valve and softener valve manuals. Then prepare all materials and tools for installation.

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

It is forbidden to open the controller by laypeople in case of damage.

B. Device location

①Each valve is connected with the controller by the wire. Each wire length is 1 meter. So, the distance between controller and each valve should be reasonable.

②Do not put the product in high humidity, corrosive, intense magnetic field or intense librations environment that may result in electronic part damaged.

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C. Controller installation

①As Figure 1 shows, making the rectangle hole (length:140~142mm; width:101~103mm). The shape edge of the hole should be burring, so as to prevent the damage of controller surface.

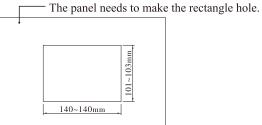


Figure 1

②As the Figure 2 shows, insert the controller into the rectangle hole.

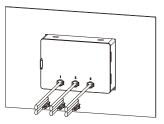


Figure 2

③As Figure 3 shows, making the clip get into the controller's slot, and tighten the screw.

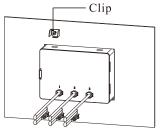


Figure 3

④As Figure 4 shows, assemble the rest of three clips and fix the controller.

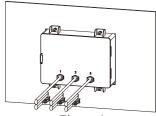
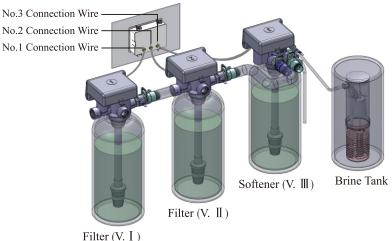


Figure 4

D. Control valve installation

Please refer the control valve's manual

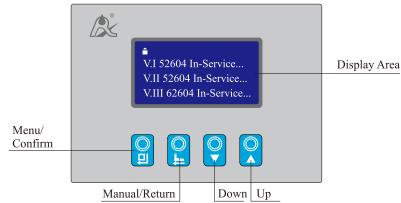
E. Three wires connection (taking the "filter valve+ filter valve+ softener valve" for example)



The pipeline installation in the water treatment system should be accomplished by the professional. Above picture is only for reference.

2. Basic Setting & Usage

2.1 The Function of PC Board



A." **♣** "

- "Light on, indicate the buttons are locked. At this moment, no single button will work (No operation in one minute, " "will light on and lock the buttons.)
- Solution: Press and hold both " ② " and " ② " for 5 seconds until the " ♣ " light off.

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B."

" Menu/Confirm

- Press " ! ", enter program display mode and view all values.
- In program display mode, press " ② ", enter program set mode, and adjust values.
- Press " ② " after all program are set, and then the voice "Di" means all setting are success and return program display mode.

C. " (=) " Manual/Return

- Press " ⑤" in any working status, it can proceed to next step. Press " ⑥" in program display mode, and it will return to previous working status; Press " ⑤" 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. " O " and " O "

- In program display mode, press "②" or " ②" to view all values.
- In program set mode, press "②" or "②" to adjust values.
- Press and hold both " O " and " O " for 5 seconds to lift the Button Lock status.

2.2 Basic Setting & Usage (Taking valve (V.I) 52604 for example)

- If you want to set the V.I valve's parameters, firstly you need to choose "Set Parameter" in the main menu, then press the " ② " button to enter the submenu. "Select the V.I valve", press the " ② " button again, and then you can choose V.I valve's different parameters to set.
- If you want to set the V.II valve's parameters, firstly you need to choose "Set Parameter" in the main menu, then press the " ¹ " button to enter the submenu. "Select the V.II valve", press the " ¹ " button again, and then you can choose V.II valve's different parameters to set.
- If you want to set the V.III valve's parameters, firstly you need to choose "Set Parameter" in the main menu, then press the "②" button to enter the submenu. "Select the V.III valve", press the "③" button again, and then you can choose V.III valve's different parameters to set.

Under the unlocked status, press " ur to enter the program display mode

Item	Parameter Set Range	Factory Default	Instruction
Set Parameter	V.I / V.II / V.III	V. I	V. I means Valve I
Set Time of Day	00:00 ~ 23:59	Current Value	/
Set Regeneration Type	A-01/02	A-01	/
Set Flow Rate Unit	gal, L, m³	m^3	/
Set Rising Time	00:00 ~ 23:59	02:00	/

Rinsing Frequency	0 ~ 20	00	/
Set Water Treatment Capacity	0 ~ 99.99	10.00 m ³	/
Set Backwash Time	0 ~ 99	10 min	/
Set Fast Rinse Time	0 ~ 99	10 min	/
Set Maximum. Rinsing Day	0 ~ 40	30 Days	/
Set Signal Type	b-01/02	b-01	/

Process display under normal working status

The process display, as below picture shows (After three valves are connected):

V.I 52604 In-Service	V.I 52604 Backwashing	V.I 52604 Fast Rinsing
V.II 52604 In-Service	V.II 52604 In-Service	V.II 52604 In-Service
V.III 72604 In-Service	V.III 72604 In-Service	V.III 72604 In-Service
Z1-1	Z1-2	Z1-3

- a) If three valves are in service status, then it shows Z1-1
- b) If Valve I in backwash status, Valve II and Valve III is in service, then it shows Z1-2;
- c) If Valve I in fast rinse status, Valve II and Valve III valve is in service, then it shows Z1-3;
- d) If Valve III in regeneration status, and VII reach the condition of rinsing, then Valve II will display Z1-1 and the "Service" will flashes that mean the Valve II are supplying water temporarily;
- e) For "Set Parameter" menu, if you choose " V. I ", then the valve I will display as below shows:

(If there is no operation within 2 min, it will return to the Z1)

(Taking the Valve I 52604 (under A-01) for example)

(Taking the Valve I 52604 (t	inder A-01) for example)	
12:12:30 V.I 52604 In-Service Water Remaining: 3.00m³ Cur. F.R.: 5.20m³/h	12:12:30 V.I 52604 In-Service Water Remaining:3.00m³ Regen. Time: 02:00	02:01:30 V.I 52604 Backwashing Remaining: 10min.
G1 02:01:30 V.I 52604 Fast Rinsing Remaining: 10min.	G2	G3

G4

- a) In service status, the screen repeatedly shows G1 and G2;
- b) In the backwash status, the screen shows G3;
- c) In the fast rinse status, the screen shows G4;

Noted:

a) In the interface of G1 to G4, if it displays V.I, press the manual button, V.I will go to the

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next status. If it displays V.II, press the manual button, V.II will go to the next status. If it displays V.III, press the manual button, V.III will go to the next status. That is, the function of four buttons is only available for the valve that display in the interface of G1 and G4. For example, in the interface of G1 to G4, if it displays V.I, the function of four buttons are only for V.I.

b) If V.III is in the regeneration, and V.II reach the condition of rinising, when checking the status of V.II, it will flash displays" V.II 52604 In-Service".

A. User Setting (Taking the filter valve 52604 for example):

Item	Process Step	Symbol
Set Para- meter	When " ight on, press and hold " " and " " for 5 seconds until the " ight off. 1. Press " and enter into the "Set Parameter" (as G1 shows). 2. Press " and " or " o	Set Parameter Set Time of Day Set Regen. Type Set Flow Rate Unit ↓ G1 Set Parameter ♥ V. I 52604 ○ V. III 62604 G1-1
Set Time of Day	1. In the interface of G1, through " " or " " to choose the parameter" Set Time of Day". 2. Press " " , enter the setting interface (as G1-2 shows). 3. In the interface of G1-2, the hour value flashes, through " " or " " to adjust the value; Then press the " " , the minute value flashes, through " " or " " or " " to adjust the value. 4. Press " " again and hear a sound "Di", then finish adjustment. 5. Press " " to return to service status.	Set Time of Day 12: 30 G1-2
Set Regen- eration. Type	1. In the interface of G1, through " " or " " to choose the parameter "Set Regen. Type". 2. Press " ", enter the setting interface (as G1-3 shows). 3. In the interface of G1-3, through " " or " " to choose the regeneration type; 4. Press " " again and hear a sound "Di", then finish adjustment. 5. Press " " to return to service status.	Set Regen. Type A-01 Meter Delayed G1-3
Set Flow Rate Unit	1. In the interface of G1, through " or " or " or " or " to choose the parameter "Set Flow Rate Unit". 2. Press " or " or " or " or " or " or " or "	Set Flow Rate Unit Gal L m³ G1-4

Set Rinsing Time	1. In the interface of G1, through " " or " " to choose the parameter "Set Rinsing Time". 2. Press " " , enter the setting interface (as G1-5 shows). 3. In the interface of G1-5, the hour value flashes, through " or " or " to adjust the value; Then press the " " , the minute value flashes, through " or " or " or " or " to adjust the value. 4. Press " again and hear a sound "Di", then finish adjustment. 5. Press " again and return to service status.	Set Rinsing. Time 02:00
Rinsing Freque- ncy	 In the interface of G1, through "O" or "O" to choose the parameter "Set Rinsing Frequency". Press "O", enter the setting interface (as G1-6 shows). In the interface of G1-6, through "O" or "O" to adjust the value; Press "O" again and hear a sound "Di", then finish adjustment. Press "O" again and return to service status. 	Rinsing Frequency F-00 G1-6
Set Water Treatment Capacity	1. In the interface of G1, through " o" or " o" to choose the parameter "Set Water Treatment Capacity". 2. Press " o", enter the setting interface (as G1-7 shows). 3. In the interface of G1-7, through " o" or " o" to adjust the value; 4. Press " o" again and hear a sound "Di", then finish adjustment. 5. Press " o" again and return to service status.	Set W.T.C 10.00m ³ G1-7
Set Backwash Time	1. In the interface of G1, through " " or " " to choose the parameter "Set Backwash Time". 2. Press " ", enter the setting interface (as G1-8 shows). 3. In the interface of G1-8, through " " or " " to adjust the value; 4. Press " " again and hear a sound "Di", then finish adjustment. 5. Press " " again and return to service status.	Set Backwash Time 10 min. G1-8
Set Fast Rinse Time	1. In the interface of G1, through " " or " " to choose the parameter "Set Fast Rinse Time". 2. Press " ", enter the setting interface (as G1-9 shows). 3. In the interface of G1-9, through " " or " " to adjust the value; 4. Press " " again and hear a sound "Di", then finish adjustment. 5. Press " " again and return to service status.	Set F.R. Time 10 min. G1-9

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Set Maximum Rinsing Day	1. In the interface of G1, through "O" or "O" to choose the parameter "Set Maximum Rinsing Day". 2. Press "O", enter the setting interface (as G1-10 shows). 3. In the interface of G1-10, through "O" or "O" to adjust the value; 4. Press "O" again and hear a sound "Di", then finish adjustment. 5. Press "O" again and return to service status.	Set Max. Rinsing D. 30 Days G1-10
Set Signal Type	1. In the interface of G1, through " or " o	Set Signal Type b-01 G1-11

B. When connect power, press and hold the " and " button for more than 2 seconds to enter the background mode.

Item	Parameter Set Range	Factory Default	Instruction
Set Language	中文/English	English	/
Set Model of V. I	62604, 62504, 62602, 62502,	Default model	/
Set Model of V. II	52604, 52504, 72604, 72504, 72602, 72502,	Default model	/
Set Model of V. III	52602, 52502.	Default model	/

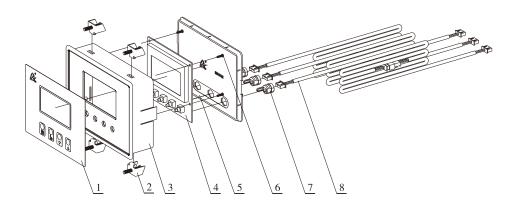
Background Setting:

Item	Process Step	Symbol
Set Langu- age	Press and hold on "②" and "⑤" for more than 2 seconds after power on, then enter into the background setting, as H1 shows. Default to choose "Set Language"; 1. In the interface of H1, press "②" and enter into the language selecting interface, as H1-1 shows; 2. In the interface of H1-1, through "②" or "②" to choose the parameter "Set Language", such as English; 3. Press "②" again and hear a sound "Di", then finish adjustment. 4. Press "⑤" again and return to service status.	》Set Language Set Model of V. I Set Model of V. II Set Model of V. III H1 Set Language 中中文 ○English H1-1

Set Model of V. I	1. In the interface of H1, through "♥" or "♠" to choose the parameter "Set Model of V. I"; 2. Press "②" again and enter into the "Set Model of V. I" interface, as H1-2 shows; 3. In the interface of H1-2, through "♥" or "♥" to choose the parameter "model", such as 62604; 4. Press "②" again and hear a sound "Di", then finish adjustment. 5. Press "⑤" again and return to service status.	Set Model of V. I ⊕62604 ○62504 ○62602 ○62502 ○52604↓ H1-2
Set Model of V. II	1.In the interface of H1, through " o" or " o" to choose the parameter "Set Model of V. II"; 2. Press " again and enter into the "Set Model of V. II" interface, as H1-3 shows; 3.In the interface of H1-3, through " o" or " o" to choose the parameter "model", such as 62604; 4. Press " again and hear a sound "Di", then finish adjustment. 5. Press " again and return to service status.	Set Model of V. II ⊕ 62604 ○ 62504 ○ 62602 ○ 62502 ○ 52604 ↓ H1-3
Set Model of V. III	1.In the interface of H1, through " " or " " to choose the parameter "Set Model of V. III"; 2. Press " " again and enter into the "Set Model of V. III" interface, as H1-4 shows; 3.In the interface of H1-4, through " " or " " to choose the parameter "model", such as 62604; 4. Press " " again and hear a sound "Di", then finish adjustment. 5. Press " " again and return to service status.	Set Model of V. III ⊕ 62604 ○ 62504 ○ 62602 ○ 62502 ○ 52604 ↓ H1-4

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3. Assembly & Parts



	2WRX.976.260 Multi-valves controller							
Item No.	Description	Part No.	Quan- tity		Item No.	Description	Part No.	Quan- tity
1	Label	8865167	1		5	Screw, Cross	8909005	4
2	Clip	5851016	4		6	Lid	8315132	1
3	Front Cover	8300058	1		7	Cable clip	8126007	3
4	Display Board	6381051	1		8	Wire for Display Board	5512017	3

Note: In order to install easier, for the display board wire (5512017), half is on the controller, another half is on the valve. When installing, just need to connect together.

4. Warranty Card

Dear client:

This warranty card is the guarantee proof of RUNXIN brand multi-valves controller. It is kept by client self. You could get the after-sales services from the supplier that 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	及调新 Multi-valves controller		
Model		Code of Valve Body	
Purchase Company Name		Tel/Cel.	
Problem			
Solution			
Date of Repairing	Date of Accomplishment	Mainte Man Sig	