Manual Instruction

ZJ-LCD-F7 Intelligent Filter management controller

1. Usage and performance characteristics

This system is used of advanced single-chip micro-computer technology,
and DC24V 8V wide range power supply,is the new device that LCD screen display the new flow measurement and control.

Advantage: Ultra thin design, elegant and beautiful, Small size, light weight, shown reading directly, clear, high reliability.It is with pulse output flow sensor and solenoid valves and other ancillary flow control system, suitable for Small and medium-sized water machine, water machine filter management and so on. Details as below :

1).Ultra slim design and flexible installation: suitable for all model Assembly, easy to use
2).Large white back-light LCD screen: beautiful, generous, making it truly digital
3).With a wide range of outside power supply: make it widely use,also can connect to a variety of models;
4）Equipped and connect with sensors, solenoid valves, can achieve small and medium-sized water machine flow control and display;
5）temperature detection: can detect water temperature and display;
6）Filter management: can be used for up to 4 groups of filter management and display (If customer needs, you can add more groups of filter display)
7）Through the high and low voltage switch can also detect water full,then stop; water less,then add water,and other functions.
8）Water quality detection: with water quality testing function can be detected RO filter,after water filtration if it meets the requirements.

2. Electrical parameters

1).working Voltage :**DC24V±8V** / 1A
2). Front position Magnetic valve working voltage: DC12V / 0.3A-0.5A
（Normally closed magnetic valve）
3). Post position Magnetic valve working voltage: DC12V / 0.3A-0.5A
（Normally closed magnetic valve）

4). Flow probe voltage :DC5V (Flow probe input pulse signal 1~400Hz, Square wave)
5).Water quality probe voltage:DC5V
6). Data K can be set Max data 1-9999 L/min in Screen.

3 .Electrical connection instructions

The system has "power", "flow meter signal", "electromagnetic valve control", "temperature probe",Water quality probe , High and low voltage switch ,and other terminal interface, the interface connection as Below :
Water quality probe separately offer.

4. Button Press key:

The system has four buttons: "**menu key**", **"set key", "+ key", "- key".**

A) Menu key: Press "Menu key" can switch to query: total flow value, K value, from first to fourth filter element use margin - flow measurement parameter and setting parameter confirmation. (The corresponding status display will appear);
B) Set key: set the parameters;
C) + key: set the digital value "+" and (temperature display state transition);
D) - key: set the digital value "-" and (water quality and days display state transition);

5 . Function and data setting instruction :

1). Cumulative total setting;

Picture 1, the cumulative total for the system default display interface;

A、Power on, The upper left corner of the LCD screen shows the normal temperature value "degrees Celsius" or "Fahrenheit" (standby without setting the state can press "+" key to switch); the upper right corner shows the real-time traffic value and save the latest display, each time the user to open the faucet It will automatically clear to zero and display the newest value; the middle shows the total flow value (the total flow value that is, each time the user turns on the cumulative flow of the faucet value), the left shows the cup and faucet patterns and water flow, the lower right corner shows the corresponding Working days or water quality (standby without setting the state can press "-" key to switch) and interface status.

B、 the total flow value of the change: long press the “set” button for 3 seconds, the total flow value can be modified, the total flow value on the right of the last digit flashing, press the” +” key to "add", press the “- “key to the value " - ", press the “set” key to confirm the setting value and enter the next setting. When the parameter is set, press the “MENU” key once to complete the operation and exit the setting state. (10 seconds no operation also automatically exit the set state)

Accumulated Total volume Work steps :

（1）Power on ,the LCD screen shows the corresponding value, the system open the rear solenoid valve for 20 seconds; automatically detect the high and low voltage switch 5 seconds if they are action or not. such as low-voltage switch off, then immediately close the two sets of solenoid valve output, buzzer call 6 times. If the high voltage switch is turned off, the front solenoid valve output is closed after 20 seconds. (Note: If the low-voltage switch is disconnected, the flashing faucet and alarm indicate that the user is not water flow or the water pressure is too low to close the faucet)

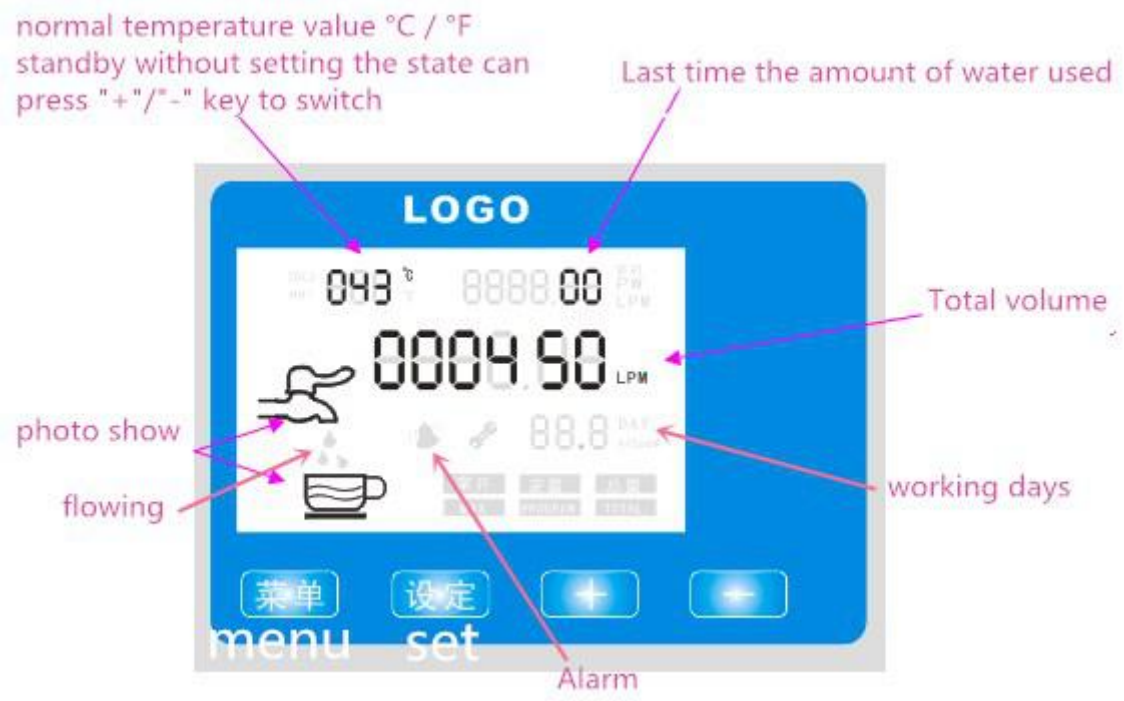
If the high and low-voltage switch not action after 20 seconds, the system into the normal working condition.

The system will automatically detect the flow sensor with or without flow signal, if the lower left corner of display ,the flow signal shows the water flow, the middle of display shows the real-time flow rate, real-time flow and the cumulative flow of the system, the system will enter the normal working state ,Also with the flow signal for the corresponding changes. When the cumulative flow is full (that is, 999999), the buzzer sounds 6 times every 3 hours, and the LCD shows the accumulated total value and alarm.

4 minutes after power-on or power-off and On again, the system automatically starts the water quality detection function. If the detection of water quality is more than 5X10ppm, the system issued alarming 10 times, ppm value and alarm flashing display.

(2)、Post position/ Rear solenoid valve for every 6 hours to open 20 seconds

(rinse RO filter membrane)



1

6. K value setting

Power on In standby mode, press the menu key to switch to the K value display interface;

As picture 2 ,

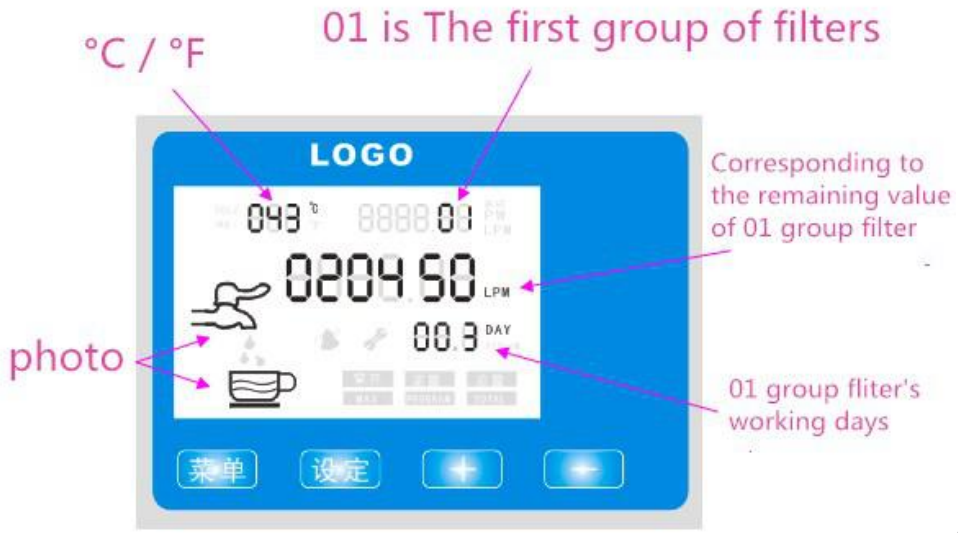
A, the upper left corner of the LCD screen shows the room temperature "degrees Celsius" or "Fahrenheit"; the lower left corner shows the cup and faucet photo; the upper right corner shows "00" represents the K value state; the middle shows the corresponding K value.
B, K value set: long press the “set “button for 3 seconds, can enter the set state. The last value of the K value flashes ,then can start to modify the K value. The modification operation can be changed by referring to the total amount.
Note: K value can not be less than 1, otherwise the buzzer alarm three times, return to the original K value interface, and modify can not be successful. If not operate for 15 seconds will automatically exit to the default interface.

2

7. First to forth groups of filter life

Power on ， Press the menu key to switch to the first group of filter life.
As shown in picture 3

A, the upper left corner of the LCD screen shows the normal temperature "degrees Celsius" or "Fahrenheit"; the lower left corner shows the cup and faucet pattern; the upper right corner shows the first group of filters, (such as "01" for the first group of filters). The middle shows the corresponding filter remaining value, the remaining value of the filter below the group shows the corresponding number of days



3

B. filter value set: long press the set button for 3 seconds, can enter the set state, set the method can refer to the total set of changes. (Note: filter value is decreasing, for example: set 3000L, when 3000 becomes 0 (or less than a value after), the system automatically jump to the corresponding group of filter interface, buzzer reported 6 sound prompt, the corresponding Group (such as 02 group) and alarm, police clamp flashing, reminder the user need to change a new filter, as shown in Figure 4 for the second group of filter alarm)

The second group, the third group and the fourth group set the same method.


LOGO
043
02
020450
LPM
00.3
DAY
启/停
清零
菜单
设定

4


Solenoid valve
Hall Flow sensor
high voltage switch
low voltage switch
Front solenoid valve/pump
power supply
ZJ-LCD-F7
MENU
SET
HHuiLai