

The pairing method between the main device and the remote controller

Continuously press "MENU" button for 5 times, then the "MENU" indicator will flash continuously, press the "OPEN" or "CLOSE" button on the remote controller for pairing; The main device will ring 2 times if it paired successfully. The "MENU" indicator is constant light up to exit pairing.

Note: If it is not paired successfully, the device will not ring, then reset the main device is needed before pairing again according to the above method.

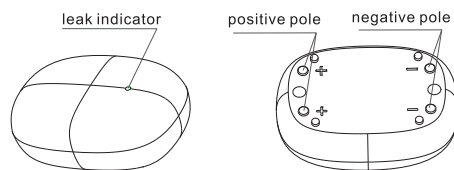
The usage of the sensor probe(option)

Before use the sensor probe, it has to be paired with the main device for normal using. The device could pair with 1pc remote controller and 7pcs sensor probe; If exceed the paired quantities, the device will cover the first pairing unit(the controller or the sensor probe) which means that the first pairing unit is invalid.

1.The pairing method

Continuously press "MENU" button for 5 times, the "MENU" indicator will flash constantly, and then short the positive and negative poles of the sensor probe(water short circuit or conductive metal for conduction), the device will ring 2 times if it paired successfully. The "MENU" indicator is constant light up to exit pairing; After pairing succeed, wait till the indicator flashes 60 seconds and run out, then can pair the next sensor probe. Otherwise the pairing will be repeated or failure. Pairing all the sensor probe according to the above method.

Note : If it is not paired successfully, the device will not ring, then reset the main device is needed before pairing again according to the above method.



pic.9

2.Leak indicator alarm mode

When the sensor probe detects the leakage, its positive and negative poles will be short circuited, the leak indicator on the sensor probe will flash and alarm, and send the valve closing instruction to the main device, and device will auto shut off valve; At this time, the valve need to be manually opened.

When the battery voltage is higher than 8V, the leak indicator will flash and alarm for 60 seconds(1 time per second).

When the battery voltage is lower than 8V, the leak indicator will fast flash and alarm for 60 seconds(2 times per second), at this time, need to replace the battery in time.

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Note: It will not remind of low power supply when the sensor probe does not detect any leaks or alarms.

3.The battery replacement

- 1)Suggest to replace it every 1-1.5 years.
- 2)Battery Specification: Brand battery 23A, 12V.
- 3)The sensor probe could be normally used after battery replaced.

4.Use condition

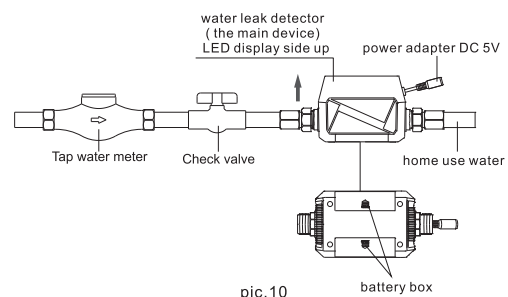
- 1)For general users, use with the sensor probe, and place it in the area which is easily leaking; Fast and accurate detects the leaks,and close valve, more safety assurance.
- 2)For large water consumption needs user, if the leakage could not be monitored by single continuous water volume and time, adjust this two parameters appropriately, and place the sensor probe in the area which is easily leaking for detection.

5.Pay Attention:

- 1)Keep out the reach of children to assure normal use when place the sensor probe.
- 2)Do not place the sensor probe in an ponding area, in case of false closing valve.
- 3)The battery needs to replace every 1-1.5 years.

Installation Instruction

- 1.Turn off the total water inlet valve, turn on the outlet of home appliance to exhaust the remaining water.
2. Install the main device in the main pipeline(pic. 10), please pay attention to the direction of the water inlet and outlet.
3. The main device must be installed horizontally, and the LED display screen should be upward to assure the detect precision of the leaks,and if install it in other directions will affect the precision of leak monitoring.



pic.10

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Malfunctions and Handling

Malfunction	E1	E2
Reason	valve from open to close, if it not fully closed or not closed to the right position.	valve from open to close, if it not fully opened or not opened to the right position.
Handling	1.Make sure whether the power adapter is normal; 2.The battery is low power, charge or replace the battery; 3. Connect the power supply after disconnect it, confirm whether it will recover automatically. 4. Change the speed reducing electric machine; 5. Replace the motor board; 6. Replace the main board;	

Remarks:

1. When the malfunction alarming occurs, the key button is invalid when touching it; The LED screen displays "E1" or "E2" and flashes(frequency: 1 second per time), and the buzzer "beep..."(frequency: 1 second per time) alarming.
2. When the malfunction alarming occurs, press "MENU" and "OPEN" for 3 seconds at the same time to eliminate "E1" or "E2" alarming, and then enter into self testing program.
3. When the external power adapter is supplied, the LED screen will constantly light up and alarm.
When the battery power is supplied: the LED screen lights up and alarms for 20 seconds, then screen is off; But the main device still in alarming status, except the screen is not light up and buzzer does not ring.

Packing List

No.	Part Name	IMT-P-ZL6	IMT-P-ZL8
1	Smart Whole House Water Leak Detector	1 sets	1 sets
2	Power Adapter	1 sets	1 sets
3	Connect Adapter	2 sets	\
4	3/4" Spacer	2 sets	\
5	1" Spacer	\	1 sets
6	Remote Control	1 sets	1 sets
7	Manual	1 sets	1 sets
8	18650 Lithium battery	1 sets	1 sets

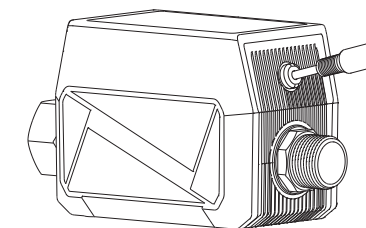
Remarks: The quantities of parts listed need to adjust according to the different model.

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MANUAL

SMART WHOLE HOUSE WATER LEAK DETECTOR

IMT-P-ZL6/ZL8



IMRITA
WHOLE HOUSE WATER FILTRATION SYSTEM

Product Feature

1. Leakage monitoring, water consumption and consumption time double monitoring, safety assurance.
2. Micro leakage monitoring, can monitor drip leakage, micro leakage, detection accuracy up to 1-2L/h.
3. Instantaneous flow monitoring, can monitor the loss caused by sudden burst of water pipe and instantaneous increase of flow.
4. Remote wireless control, can remote control the valve opening, valve closing, the control range is of 10-30 meters.
5. The main device could match 1pc remote controller and 7pcs sensor probe at the same time, also can quickly and accurately sense the leak position and close the valve (sensor probe is for option).
6. Built-in lithium battery, dual power supply automatic switch, automatic charge and discharge protection function, it also detects the water leakage when power failure.
7. Water proof for electronic control part of valve body, and sealing design for its shell to ensure the internal sealing and improve the service life and its stability of the product.
8. Reduction motor adopts metal gear structure design to improve the stability of switching electric valve.

Product Parameters

Product Name:	Water Leak Detector	
Item No.:	IMT-P-ZL6	IMT-P-ZL8
Inlet Pressure:	0.1-0.4MPa	
Water Flow Rate:	4.0m ³ /h	6.0m ³ /h
Rated Voltage/Frequency:	100-240V~50/60Hz	
Power:	2W	
Application:	Municipal Tap Water	
Inlet water temperature:	5°C~38°C	

Press Key Description

1. Key button : "MENU", "OPEN", "CLOSE".



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- Open/close valve indicator
- Leakage indicator
- Low power indicator

2. Key button "MENU" :

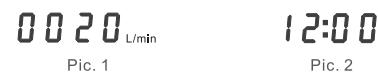
- 1) Long press it for parameter setting.
- 2) Then long press it to save the setting and exit.
- 3) The "MENU" is for parameter key under parameter setting mode.
- 4) Press "MENU" button 5 times continuously to pair with the remote controller and sensor probe.
3. Key button "OPEN" :
- 1) Long press "OPEN" 1 second to open the valve, and the buzzer beeps.
- 2) The "OPEN" is for left to right transposition keys under parameter setting mode
- 3) It is invalid in pairing situation.
4. Key button "CLOSE" :
- 1) Long press "CLOSE" 1 second to close the valve, and the buzzer beeps.
- 2) The "CLOSE" is for number adjustment under parameter setting mode.
- 3) It is invalid in pairing situation.

5. Key Button Combination
- 1) Press the "OPEN" and "CLOSE" button at the same time to restore factory default.
- 2) E1 or E2 malfunction alarming, press the "MENU" and "OPEN" key above 3 seconds to eliminate the alarm and enter into self-testing program.

Parameter Setting

Press "MENU" button above 3 seconds to enter into parameter setting. After finished setting, press "MENU" button above 3 seconds to exit, also will save the set parameters.

1. Press "MENU" above 3 seconds, the LED screen displays the current flow (L/min) when water using.
2. Set the current time (pic. 2): 12(hour) :00(minute), hour set for 1 hour as unit increasing cycle, minute set for 1 minute as unit increasing cycle (time set for 24 hours system), it can be saved for 30 days after power off.



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is 0160L for ZL6, and 0180 for ZL8). It is invalid when it sets with "0"; The indicator "Volume" and "L" will light up at the same time when adjust the parameters.

4. Time (single continuous use time) (pic.4): 0045min (0045 represents the adjustable water consumption time, with the maximum of 9999min). It is invalid when it sets with "0"; The indicator "TIME" and "min" will light up at the same time when adjust the parameters.
5. Leak Time (single continuous leak time) (pic.4): 0045 represents the adjustable time, with the maximum of 9999min). It is invalid when it sets with "0"; The indicator "Leak Time" and "min" will light up at the same time when adjust the parameters.
6. Max flow (pic.5): 0034 L/min (0034 represents the maximum adjustable water flow, with the maximum of 9999L, and the default value is 0034L for ZL6, and 0053 for ZL8). It is invalid when it sets with "0"; The indicator "Max Flow" will light up at the same time when adjust the parameters.



7. Automatic water restore supply time (pic. 6) : F015s, (F stands for serial number, 015 stands for adjustable time "second", maximum 999s). It is invalid when it sets with "0"; When the abnormal situation described in item 3/4/6 above causes the valve to close and stop the water supply, it will be automatically restored if the water faucet is closed within 15 seconds. If the faucet is not closed within 15 seconds, the valve closed and shall be manually opened.
8. Automatic valve closing time without continuous water supply (pic. 7) : H003 days (H stands for serial number; 003 stands for adjustable time "day", up to 999 days). After the valve is closed beyond the set days, the valve shall be manually opened. It is invalid when it sets with "0".

9. Valve self-test interval (pic. 8) : P-10 days, the interval is set. The number of days is set as 1 day for the unit increasing cycle (P represents the serial number, 10 represents adjustable days, the longest 99 days). When the number of days reaches the set value, the valve will be automatically switched on and off once to verify whether the valve function is abnormal (default: 02:00). It is invalid when it sets with "0".



Working Mode

There be two kinds of working mode: normal working mode and power saving working mode.

1. Double power supply for automatic switching, automatically enter normal working mode when external power supply is

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supplied, which can realize all set functions; When the external power supply is off, it automatically switches to the battery power supply and starts the power-saving working mode. Only the basic functions are realized, and some functions are automatically shielded to save power.

2. Function in normal working mode: Valve closes and alarms when the water consumption (single continuous water volume) exceeds the set value; Valve closes and alarms when the time (single continuous use time) exceeds the set value; Valve closes and alarms when the leak time (single continuous leak time) exceeds the set value; Valve closes and alarms when the maximum flow exceeds the set value; Automatic restore water supply function; Continuous disuse water exceed the set value; Low power alarm; Valve interval self-testing; Wireless remote control; Sensor probe detects leak and valve close function; WIFI mode (optional).
3. Function in power saving mode: cancel the valve interval self testing function, wireless remote control function, sensor probe detects leaks and valve closing function, WIFI function, other functions are reserved.

Leak alarming and disposal

After the detector enter into alarming program, the valve needs to be manually opened; The causes and displaying as follows: After the device enter into alarming program, the valve needs to be manually opened; Why it leaks and how it shows on the LED display is listed as below:

1. Volume (single continuous water volume for consumption) alarming: the indicator "Volume" + "L" flash at the same time, "L" lights up, buzzer alarms, the valve closed, LED displays "OFF".
2. Time (single continuous use time) alarming: the indicator "Time" + "min" flash at the same time, "min" lights up, buzzer alarms, the valve closed, LED displays "OFF".
3. Leak time (single continuous leak time) alarming: "Leak Time" + "min" flash at the same time, buzzer alarms, the valve closed, LED displays "OFF".
4. Exceeding the maximum flow alarming: "Max Flow" + "L/min" flash at the same time, "L/min" lights up, buzzer alarms, LED displays "OFF".

Note: The default alarm parameters can be adjusted appropriately to adapt to more water environment.

Low power alarming and restoring

The voltage of battery of the detector reaches to 3.3V, it will come into lower power alarm, LED screen is on, low power indicator flashes, buzzer will "di" for 10 times, after 10 times, LED screen is off, but the detector is still in alarm status, and the LED screen is off, buzzer does not alarm, and it will repeat this every 60 minutes; When the voltage of the battery reaches to 3.0V, it will automatically shut off and LED screen is off; After power supply restored, the detector will detect the voltage of the battery, and will automatically exit low power alarming when the voltage is above 3.3V.

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