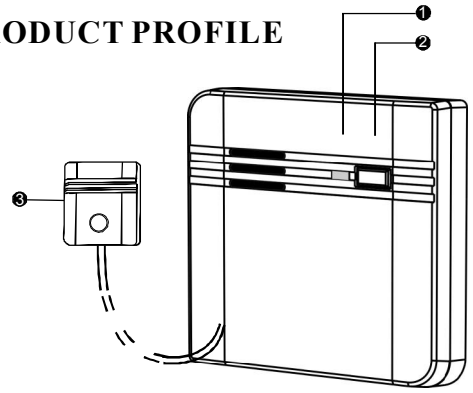
M405-3OVer1. 0

PRODUCT INTRODUCTION

This product is a water leakage detector, using the principle of electrode immersed resistor changes to detect water. The detector adopts MCU intelligent detection, rust-proof metal probe design with advantages of high accuracy and sensitivity, low power consumption, long-term stability and reliability, etc. It can be widely used in all water storage equipment, such as basement, water tank, machine room, water route, water tower, water cellar, pools, water room, solar energy and anywhere to detect water leakage area.

Three optional models: Independent/ Network/ Wireless.

PRODUCT PROFILE



❶ LED ❷ TEST Button

❸ Sensor (Built-in magnet has adsorbed function)

5-PIN connector instruction (Network type only)

Red: DC Power anode
Black: DC Power cathode
White: COM (relay)
Orange: N.O. (relay)
Yellow: N.C. (relay)

TECHNICAL SPECIFICATION

Type	Independent	Wireless	Network
Operating voltage	DC3V(2x1.5V AA Alkaline Batteries)		DC9-24V
Static current	≤10uA	≤10uA	≤22mA
Alarm current	≤40mA	≤50mA	≤130mA
RF Distance		＞150M	
Alarm indicator	Red LED and buzzer sounding		
Fault indicator	Yellow LED		
Alarm output	N/A	1527/433MHz	Relay (NC/NO)
Working Temp.	0-60℃		
Humidity	0-80%RH (no congelation)		
Sound level	≥85dB/3M		
Hush time	10 minutes		
Installation	wall mounted or board installed		
Dimension	89*89*28mm(bracket not included)		

FEATURES

- Rust-proof Metal Probe, Long Service Life
- Sound and Flash Alarm
- Low Power Consumption Design
- Test and Hush Button
- Low Battery Warning
- MCU Processing, Resist False Alarm Efficiently
- SMT Manufacture Technology, Good Stability
- ″Heartbeat” Timing Function

INSTALLATION NOTICE

1. Install the detector where the water is likely to leak.
2. Do not locate the detector in cabinet and other places where the alarm sound can not came out easily.
3. Do not install it at the area with rain, oil smoke and steam of cooking range .
4. Do not install the detector with submersed water.

INSTALLATION STEPS

1. Attach the mounting bracket on the wall or board firmly with screws.
2. Mount the rest of the detector into the bracket.
3. Put the probe in the floor where the water is likely to leak. Or use the sensor magnetic adsorption where required detects water.
4. Connect the alarm to the power.

OPERATING PRINCIPLE

1. Insert 2pcs 1.5V AA batteries into the battery cabinet (independent or wireless type). Connect DC9-24V power to 5-pin connector (network type). While the connected DC power or battery voltage is more than 2.4V, the green LED flashes once with buzzer sounding. While the voltage is less than 2.4V, the yellow LED flashes rapidly for 3 times with buzzer sounding. Then the detector comes into normal working status.
2. The green LED long lighting under DC power supply. While the operated with batteries, the green LED flashes once every 25 seconds to indicate the normal power supply.
3. Routinely long press the TEST/HUSH button (＞2seconds) for testing to make sure the detector works properly. The red & green LED flashes alternately after 2 seconds with buzzer sounding every 3 sounds paused until release the button. Moreover, the relay works (network type) and send out wireless alarm signal (wireless type) on testing.
4. Once the sensor detects leakage water, the red LED flashes rapidly with buzzer sounding every 3 sounds paused to warn the users. Moreover, the relay works and output alarm signal (network type); it will send out wireless alarm signal (wireless type) on alarming.

5. During alarming status, long or short press the TEST/HUSH button to enters into mute status. The red & green LED flashes alternately once every 1 second, the buzzer stop sounding, relay or RF model shut off; The mute status will end automatically in 10 minutes later. If still detects leakage after 10 minutes, the detector will alarm again to warn users.
6. Short press the TEST/HUSH button on normal state to enter into mute status. The buzzer sounds 'Di' once and green LED flashes every 1 second. While has leakage water, the red & green LED flashes alternately once every 1 second, but without any alarm signal, such as sound, relay or RF. Users can mop floor or wash pool on mute status. Re-press TEST/HUSH button to end up the mute status.
7. Under alarming status, no matter long or short press the button, it will goes into mute status. On alarming and mute status, it will cancel mute after long or short pressed the button.
8. The battery voltage will be down during usage process. When the battery voltage <2.4V, the detector will give out low battery signal. The yellow LED flashes once every 50 seconds with the buzzer sounding.
9. The detector will stop alarm automatically and reset to normal working status after the leakage handled properly.
10. The detector can load up "Heartbeat" to confirm the detector on line or off line. The "heartbeat" time can set to 2 hours or 4 hours by setting the "UPDATA" jumper.

INDICATIONS SUMMARY

Indication	Analysis
Green LED flashes once with buzzer sounding	The battery (>2.4V) or DC power supply
Yellow LED flashes rapidly for 3 times with buzzer sounding	The battery (<2.4V) power supply
Green LED flashes constantly	Normal, DC power supply
Green LED flashes every 25s	Normal, battery power supply
Red and green LED flashes alternately with buzzer sounding every 3 sounds paused	Testing state, release the button to exit
Red LED flashes with buzzer sounding every 3 sounds paused	Alarming state, detects water or touch conductive objects
Red and green LED flashes alternately once every 1 second without buzzer sounding	Alarming mute state, long/ short press TEST/HUSH button to cancel mute state
Green LED flashes once every second without buzzer sounding	Normal mute state, short press TEST/HUSH button to cancel mute state
Yellow LED flashes once every 50s with the buzzer sounding	Low battery warning, the voltage <2.4V, the battery should be replaced

EMERGENCY ALARM TREATMENTS

Treatments for water leakage alarm:

1. Shut of water valves.
2. Drain away the water and overhaul the tubes to reduce the economic losses and water wastes caused by leakage water.

NOTES

1. When the sensor detects water leakage and the detector still sit on alarming state after drain away the water. It may the water residue of probe inside or surface. Dry the water residue on surface with towel to check whether the detector recovers to normal working status. If still on alarming state, take the sensor off and shake the residue water out, dry the surface with towel and installing then.
2. Replace the battery timely on low battery warning to ensure the detector works properly,
3. Do not store any other subjects on the surface of detector, as this may effect the indication and sounding.
4. Test the detector routinely to ensure proper operation. Clean the surface with soft towel regularly.
5. Read carefully and install correctly as required in this manual. In case the product is failure, do NOT try to fix it by yourself. Contact with your dealer for replacement.