Water Presence Sensor

Product Manual

Product Model: AQUA

Thank you for choosing the "AQUA" Water Presence Sensor! This product is designed to help you promptly detect potential water damage risks, protecting your home, office, or valuable equipment from damage caused by leaks or overflows. Please read this manual carefully before use.

I. Product Overview

The "AQUA" Water Presence Sensor is an intelligent and sensitive water monitoring device. When it detects the presence of liquid water in its sensing area, the device sends an alert notification via wireless signal to a connected relay hub or mobile APP, allowing you to be informed of the situation immediately.

II. Product Features

- **Highly sensitive detection:** Precise sensors quickly detect minimal contact with liquid water.
- **Instant multi-alarm:**
    a. **Local visual alarm:** Built-in prominent LED indicator flashes.
    b. **Wireless remote alarm:** Supports protocols like BLE, Wi-Fi, and other proprietary RF to push alert information to the dedicated APP.
- **Wireless design, flexible placement:** No wiring required; battery-powered. Can be placed in key areas prone to leaks (e.g., under kitchen sinks, beside washing machines, under water heaters, in basements, near water pipes).
- **Low power consumption, long battery life:** Low-power design. Uses a standard CR2477 battery for extended operation (typically 3-5 years, depending on alarm frequency and signal strength). Actively alerts when battery is low.
- **Compact and slim:** Small size, easy to place in narrow spaces.
- **Easy installation:** Simply place flat to secure; no tools needed.

III. Product Components List

- **"AQUA" Water Presence Sensor main unit x 1**
- **CR2477 Coin Cell Battery x 1**
- **User Manual x 1**
- **(Optional) 3M Adhesive Pad x 1**
- **(Optional) Quick Start Guide x 1**

IV. Installation & Placement

- **Select Location:** Identify high-risk points for potential leaks in your home or premises (e.g., under or behind washing machines, below dishwashers, inside water heater drain pans, under kitchen/bathroom sink cabinets, near A/C condensate drain lines, low points on basement floors, below pipe joints). **Ensure the metal sensing electrodes on the bottom of the detector can contact potentially accumulating water flow or droplets.**
- **Installation Method:**
    a. **Place Flat:** Place the detector directly flat on a level surface in the area to be monitored, with the sensing surface facing down.
    b. **Adhere: Clean** and dry the target surface. Peel off the adhesive backing and firmly attach the detector to the chosen location. Ensure the adhesive surface is flat and secure.
    c. **Important Note:** When placing, ensure the metal sensing area on the bottom of the detector **has no covering**, and is not blocked or elevated by debris, otherwise effective leak detection will be impaired.

V. Maintenance & Care

- **Regular Testing:** It is recommended to test the device function monthly (touch electrodes with a damp cotton swab).
- **Clean Sensing Electrodes:** Regularly clean the bottom metal electrodes with a dry soft cloth to ensure they are free of dust and grime, maintaining sensitivity.
- **Battery Replacement:**
    a. Replace the battery when the device indicates low battery (specific LED flash pattern/APP notification) or fails to respond during testing.

b. Open the battery compartment cover.
c. Remove the old battery, noting the polarity (+/-).
d. Insert a new CR2477 coin cell battery (ensure positive "+" side faces up).
e. Close the battery compartment cover. The device LED will flash.
f. Dispose of used batteries properly.

- **Device Cleaning:** Wipe the housing with a slightly damp soft cloth. **Do not immerse or allow water to penetrate the device interior.** Avoid using corrosive cleaners.

VI. Technical Specifications

- **Power Supply:** 1 x CR2477 3V Coin Cell Battery
- **Battery Life:** Approx. 3-5 years (under normal operating conditions, depends on alarm frequency & signal strength)
- **Wireless Protocol:** Bluetooth Low Energy 5.0
- **Operating Frequency:** [Fill in RF frequency if applicable]
- **Operating Temperature:** -40°C ~ 65°C
- **Operating Humidity:** < 95% RH (non-condensing)
- **Protection Rating:** IP67
- **Dimensions:** 42.5 mm x 42.5 mm x 17.7 mm

VII. Important Safety Information & Precautions

- **For indoor use only.** Avoid direct sunlight, high temperatures, high humidity (e.g., constant steam in bathrooms), and proximity to strong electromagnetic interference sources.
- **This device is for detecting liquid water (leaks/overflows). It cannot detect water vapor, humidity, or prevent flooding.**
- **Alarms are for notification only and cannot stop leaks from occurring.** Users are responsible for promptly addressing water leak issues.
- Do not **disassemble**, modify, drop forcefully, or crush the device.
- Use only the battery type specified in this manual and observe the correct polarity. Incorrect battery installation may damage the device.
- The sensing electrode area **must not be coated** with any paint, glue, stickers, or other insulating/conductive substances.
- Keeping the sensing electrodes clean and dry is crucial for proper operation.

- If the device will not be used for an extended period, remove the battery.
- Keep the device and battery out of reach of children and pets.
- **This device is a supplementary safety tool and is not a substitute for regular inspection and maintenance of plumbing and equipment.**

VIII. FCC Statement and IC Statement

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are

designed to provide reasonable protection against harmful interference in a

residential installation. This equipment generates, uses and can radiate radio

frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.

- Increase the separation between the equipment and receiver.

-Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

-Consult the dealer or an experienced radio/TV technician for help.

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

(1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

FCC RF Exposure Warning Statement:

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment can be used in portable exposure conditions.

This device contains licence-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's licence-exempt RSS(s). Operation is subject to the following two conditions:

(1) This device may not cause interference.

(2) This device must accept any interference, including interference that may cause undesired operation of the device.

L'émetteur/récepteur exempt de licence contenu dans le présent appareil est conforme aux CNR d'Innovation, Sciences et Développement économique Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes :

(1) L' appareil ne doit pas produire de brouillage;

(2) L' appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d' en compromettre le fonctionnement.

ISED Radio Frequency Exposure Statement:

This equipment complies with ISED exposure limits set forth for an uncontrolled environment.

This equipment can be used in portable exposure conditions.

Déclaration d'ISDE sur l'exposition aux radiofréquences :

Cet équipement est conforme aux limites d'exposition d'ISDE établies pour un environnement non contrôlé. Cet équipement peut être utilisé dans des conditions d'exposition portables.