

Flame Alarm Kit - Assembly & User Manual

This manual provides step-by-step instructions for assembling, wiring, and testing the Flame Alarm Kit. Please read all instructions carefully before starting assembly.

1. Tools & Components

- 1 Screwdriver
- 2 Wire stripping tool
- 3 Flame sensor module
- 4 Buzzer (alarm)
- 5 Battery case
- 6 Base and cover plate
- 7 6 mm screws

2. Assembly Instructions

- 1 Secure the battery case to the base using 6 mm screws and route the wires through the designated hole.
- 2 Ensure the base is correctly oriented with bulges facing upward.
- 3 Attach the cover plate firmly to the base.
- 4 Mount the flame sensor module onto the board using screws.
- 5 Connect wiring as follows: Red wire to VCC, Black wire to GND, buzzer negative to GND, buzzer positive to OUT.

3. Power & Sensitivity Adjustment

Insert the battery into the battery holder. Adjust the sensitivity knob on the flame sensor module. Increase sensitivity until the indicator light activates and the buzzer sounds, then slightly reduce until the buzzer stops. This ensures optimal detection sensitivity.

4. Final Assembly

- 1 Assemble the alarm housing.
- 2 Fix the assembled unit onto the baseplate.
- 3 Securely close the top cover.

5. Testing Procedure

Light a candle and place it near the flame sensor. The buzzer should activate when a flame is detected. If the alarm does not trigger correctly, readjust the sensitivity as described above.

6. Safety Precautions

- 1 Avoid exposing the sensor to direct sunlight.
- 2 Handle fire sources such as matches and lighters with care.
- 3 Keep the device away from flammable materials during testing.
- 4 Ensure all electrical connections are secure before powering the device.