# AquiTron | AT-RAP-230
## Remote Alarm Panel



**INSTALLATION & OPERATION INSTRUCTIONS**

**aquilar**
leak detection solutions

# AquiTron

# AT-RAP-230
## Remote Alarm Panel

Please read these instructions carefully and keep them in a safe place (preferably close to the module) for future reference. These instructions must be followed carefully to ensure proper operation. Wiring of this alarm panel should be carried out by a suitably qualified technical in accordance with the applicable regulations and standards in the relevant industry/country. This manual is intended as a guide and Aquilar Ltd bears no responsibility for damage or injury arising from incorrect installation of this and any supplementary equipment.

**Note: If the AT-RAP described in these instructions is used in a manner not specified by Aquilar, the protection provided by the equipment may be impaired.**

## A. GENERAL INFORMATION

Designed to fit on a standard single gang flush or surface box (optional), the AT-RAP can be easily mounted to a wall or other flat surfaces. Its small size makes it ideal for installation where space is at a premium, or where an unobtrusive appearance is desired. The AT-RAP is designed to allow a remote indication that a leak detection panel has gone into alarm. It can be easily reset at the main alarm panel. If visual indication only is required, the sounder can be disabled via an internal jumper.

### TOOLS REQUIRED
• Drill or hole punch for electrical conduit entries
• Small flat-head screwdriver

### INSTALLATION ITEMS (NOT SUPPLIED)
• Wall fasteners for surface mounting

### STORAGE
Keep the module in a dry place prior to installation to avoid possible damage to internal components.

### USE
For Indoor use only.

## B. PRODUCT INFORMATION

### AT-RAP
230Vac 50Hz

### MAINS WIRE
Max 1.5mm²

### INTERCONNECTION CABLE
Max 500m 2 core 0.5mm² twisted screened cable.

### POWER CONSUMPTION
50mA

### STATUS LED
Normal - GREEN, Alarm - RED

### NUMBER OF INPUTS
1

### TRIGGER CIRCUIT
2 Wire

### AUDIBLE ALARM
90dB at 1 metre

### TEMPERATURE
**Operating:** 5°C to 40°C
**Humidity :** 5% to 80% non-condensing

### DIMENSIONS
85mm x 85mm x 30mm (WxHxD)

### ALARM PANEL COMPATABILITY
All EcoLeak, AquiTron and TraceTek alarm panels

### APPROVALS
BS EN IEC 61000-6-3:2021
BS EN IEC 61000-6-1:2019

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## C. ALARM PANEL MOUNTING

The AT-RAP should be mounted on an internal flat surface away from direct contact with water.

2 x fixing holes are provided to enable fixing to a minimum 32mm deep single gang switch/socket box.

When making off cables for termination, sufficient length should be left to allow removal and easy access to the electronics mounted on the plate.

**Note : When using a metal back box a dual ferrule with incoming earth and an outgoing back box earth should be used.**

## E. ALARM CONNECTION

### TWO WIRE ALARM TRIGGER

Any volt free contact can be used to trigger the AT-RAP.

The contact must be normally open and close on alarm.

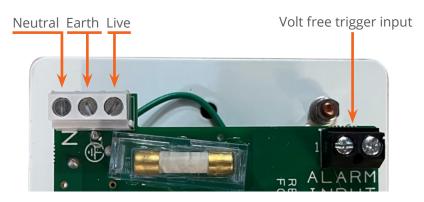The two wires should be connected into the input terminals (not polarity sensitive).

If the AT-RAP is being used on an AquiTron or TraceTek alarm panel these wires should connect into the common (C) and normally open (N/O) terminals of one of the volt free relays.

**NOTE: It is not recommended to connect more than one trigger circuit into each AT-RAP.**

## D. POWER CONNECTION

This remote alarm panel requires its own
230Vac 3A fused spur **(Note: do not exceed 3A fused spur when powering the AT-RAP-230)**. This can be situated locally or at the alarm panels location. This should be connected to the power terminals as per the image below.

Neutral  Earth  Live

Volt free trigger input



Warning Shock Hazard. To Avoid electrical shock all wiring must be done with power off.
DO NOT EXCEED VOLTAGE
**NOTE: Unit must be earthed**

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## F. INSTRUCTIONS FOR USE

A volt free closed contact across the input terminals will cause the unit to go into alarm.

The green LED push button will turn red and an audible buzzer will sound.

Pressing the button will mute the buzzer. This will NOT reset the LED. This can only be reset when the master panel is reset or circuit opened across the trigger input contacts.

## G. DISABLING THE BUZZER

Removing the jumper on LK1 will disable the internal buzzer.

To enable the buzzer, simply replace the jumper.



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