



# AT-APA

## Addressable Pinpoint Alarm

The Aquitrone Addressable Pinpoint Alarm (AT-APA) is a highly efficient leak detection alarm module for use with TraceTek sensing cable or Aquitrone point sensors. Up to 4 separate leak detection circuits can be connected to the module. 10 leak detection probes or up to 150 metres of leak detection cable can be connected to each circuit. Each circuit can be divided into up to 10 'zones' and each zone individually named. This along with multiple connection methods available for external equipment make this a panel to fit almost any application.

**Diamond Controls Ltd**  
21a Bessemer Road  
Norwich, Norfolk  
NR4 6DQ

**Contact**  
01603 745000  
sales@diamondcontrols.co.uk  
www.diamondcontrols.co.uk

VAT Number: 797 771 750  
Registered Company: 4113848



Procedure:	OPS08	Document ref:	ATAPA	Publish date:	05/02/25	Approved by:	Lee Blackett	Review date:	As Required
------------	-------	---------------	-------	---------------	----------	--------------	--------------	--------------	-------------



**Diamond  
Controls**<sup>®</sup>

Leak Detection & Trace Heating Systems

**AT-APA**  
Addressable Pinpoint Alarm

## Simple Operation

---

This compact module is suitable for integration into the building's computer network and in the event of a leak it will automatically send an alert to notify engineers of the problem. The module can be easily configured and data consulted either locally via the touch screen or remotely via the built-in web server. Any leaks are shown on the module's touch screen and a buzzer activated. Automatic alarms are sent via SNMP or email, and the alarm relay is enabled. All alarm data can be viewed remotely. All alarms are stored in the module's memory, together with the time stamp and details. The location of the leak is easy to identify on a diagram in PDF format, which can be loaded into the alarm module. The AT-APA can be easily integrated into any building management system by loading the relay contacts or reading the standard Modbus TCP/IP registry.

## Versatile Design

---

Capable of monitoring up to four individual sensing channels. The AT-APA metal enclosure can be easily mounted to a wall or other flat surface. The panel has a large touch screen display and 90 decibel audible alarm. Providing both visual and audible indication for stand-alone applications. Several options for external equipment connectivity are provided as standard. Full connectivity is available via ModBus or by "Leak Detected" and "Fault detected" (cable break or power loss) volt free relays on each of the four channels for connection to BMS and/or other remote monitoring systems. In addition full remote control and monitoring is available via web server connected either by RJ45 or Wi-Fi. The AT-APA panel operates on 100 to 230Vac (50/60HZ), 24Vac and 12/24Vdc. Battery backup providing 12 hours operation in the event of a power failure can easily be provided with the addition of AT-PSU-12-1.



### Applications


The AT-APA is ideally suited to projects where a cost-effective pinpoint leak detection solution is required, such as commercial spaces or individual residential properties. Suitable areas include: Commercial buildings, Data rooms, large tea points or vending areas, kitchens, FCU's, lift pits, plant rooms, tank and pump rooms. Residential Buildings: high risk areas such as, kitchens, bathrooms, WC's, utility rooms and risers.



### Technical Information

<b>Sensing cable compatibility</b>	All TraceTek sensing cable (TT1000, TT1100, 3000, 5000, 5001, 7000)
<b>Detection Probes</b>	Works with AT-PROBE-TS/M water leak detection probes (see technical data sheets)
<b>Maximum sensing circuit</b>	Choice of 1, 2, 3 or 4 circuits up to 100 metres (328 ft) per zone or 10 x AT-PROBE-M/TS
<b>Optional ambient sensor</b>	Combined temperature and humidity sensor which can be directly connected and configured.
<b>Alarm module housing</b>	Metal Enclosure - White RAL 9006 matt - 244x233x61 mm (LxHxD). Total inc fixing tabs and RJ45 connector 268x295x61 mm (LxHxD)
<b>Cable Entry</b>	6 x 20mm Bottom 5 x 20mm Back.
<b>Power supply</b>	230/110Vac, 50/60Hz , 12/24Vdc
<b>Capacity of the module</b>	10W
<b>Touch Screen</b>	7 inch. Resolution: 800 x 480 pixels. Screen size 155 x 86 mm.
<b>Relay Output</b>	2 independent potential-free relay contacts for each channel. The first relay switches off if there is a power failure or system fault. The second relay switches off if a water leak is detected.
<b>Loading of maps</b>	Sensing Circuit Maps in PDF format
<b>Connection to the AT-APA module.</b>	Via the built-in WiFi, or via a LAN connection.
<b>Connection to Network</b>	LAN via RJ45 connector.
<b>Alarm notifications</b>	On screen display and audible alarm. Emails (Via system set up). SNMP trap or Modbus register via built-in alarm relay Modbus connection.
<b>Events History</b>	Records last 1 000 Events.
<b>Communication with the BMS or SNMP management system</b>	5001, Modbus TCP/IP register SNMP trap, BACNET.

## Approvals

Electromagnetic compatibility (EMC)		
	Compliant with standards for emissions	EN61000-6-3
	Compliant with standards for immunity	EN61000-6-1:2001
The Low Voltage Directive 2006/95/EC		

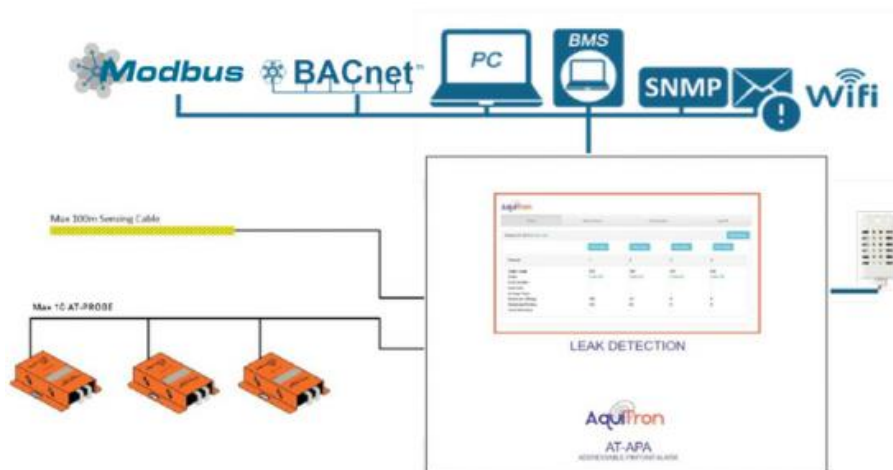
## Ordering Information

Catalogue Number	Product Description
2024	AT-APA Addressable Pinpoint Alarm

## Ancillary Products

Catalogue Number	Product Description
3675	AT-PSU-12-1 PSU / Battery Sold Separate - Battery Back Up (12 hours backup)
3700	AT-BAT Battery
2028	AT-APA-HTS Humidity/Temp Sensor

## Configuration Examples



**Important:** All information, including illustrations, is believed to be reliable. Users, however, should independently evaluate the suitability of each product for their application.