AquiTron | AT-APA
Addressable Pinpoint Alarm

LEAK DETECTION

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DATA SHEET

aquilar
leak detection solutions

AT-APA
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The AquiTron Addressable Pinpoint Alarm (AT-APA) is a highly efficient leak detection alarm module for use with TraceTek sensing cable or AquiTron 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.

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.

244mm *

233mm *

61mm

(*295mm inc. RJ45 connector)

(**268mm inc. Mounting Tabs)

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

Sensing cable compatibility	All TraceTek sensing cable (TT1000, TT1100, TT3000, TT5000, TT5001, TT7000)
Detection Probes	Works with AT-PROBE-TS/M water leak detection probes (see technical data sheets)
Maximum sensing circuit	Choice of 1, 2, 3 or 4 circuits up to 150 metres per zone or 10 x AT-PROBE-M/TS.
Optional ambient sensor	Combined temperature and humidity sensor which can be directly connected and configured.
Alarm module housing	Metal Enclosure - White RAL 9006 matt - 244x233x61mm (LxHxD). Total inc fixing tabs and RJ45 connector 268x295x61mm (LxHxD)
Cable Entry	6 x 20mm Bottom 5 x 20mm Back.
Power supply	230/110Vac, 50/60Hz , 12/24Vdc
Capacity of the module	10W
Touch Screen	7 inch. Resolution: 800 x 480 pixels. Screen size 155 x 86 mm.
Relay Output	2 independent potential-free relay contacts for each channel. The first relay switch operates if there is a power failure or system fault. The second relay switch operates if a water leak is detected.
Loading of maps	Sensing Circuit Maps in PDF format.
Connection to the AT-APA module.	Via the built-in WiFi, or via a LAN connection.
Connection to Network	LAN via RJ45 connector.
Alarm notifications	On screen display and audible alarm. Emails (Via system set up). SNMP trap or Modbus register via built-in alarm relay Modbus connection.
Events History	Records last 1000 Events.
Communication with the BMS or SNMP management system5001	Modbus TCP/IP register SNMP trap, BACNET.

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APPROVALS

Electromagnetic compatibility (EMC)

CE UKCA	Compliant with standards for emissions	EN61000-6-3
	Compliant with standards for immunity	EN6100-6-1:2001

ORDERING INFORMATION
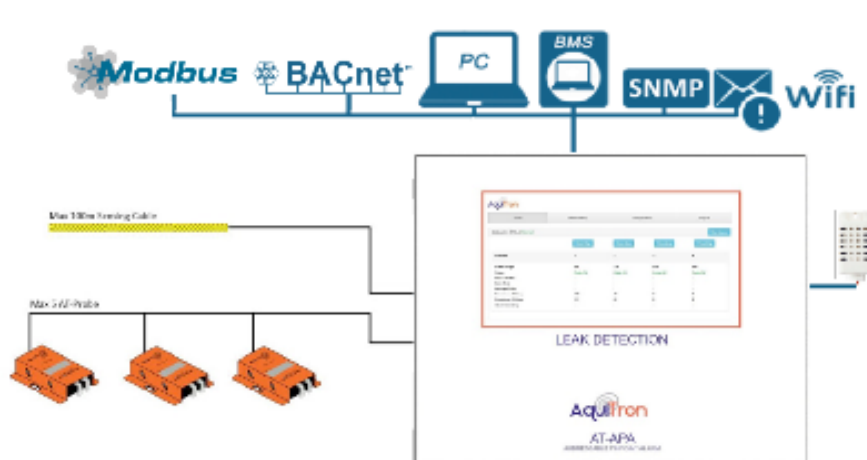
2024 AT-APA Addressable Pinpoint Alarm

ANCILLARY PRODUCTS

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

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