

# AquiTron

# AT-ZAP

Zone Alarm Panel



**DATA SHEET**



**aquilar**  
leak detection solutions

# AT-ZAP

## Zone Alarm Panel



The AT-ZAP zone alarm panel has been designed specifically for use with all Aquitrone and TraceTek liquid sensors. The AT-ZAP can monitor up to 100 m of sensing cable, 10 water detection probes or a combination of sensors per zone (12 zones). The AT-ZAP can directly control up to 12 Aquilar latching valves. It is designed for use in ordinary areas with temperatures of 0°C to 50°C.

### SIMPLE OPERATION

The AT-ZAP features a touch screen interface with intuitive controls and visual indicators for seamless operation. The touch screen display provides information and control options for all functions, including alarm resets, zone status information and panel customisation. The AT-ZAP is equipped with 12 separate zones able to represent specific areas that are all constantly monitored separately. The simple to use interface allows the user to interact with the individual zones, view their status and access or change control options. In case of a leak or a fault alarm the system will give both a visual and audible notification. The AT-ZAP is equipped with 12 user programmable volt free relays and 12 dedicated solenoid valve control outputs. The panel is also equipped with common leak and fault relays that will be triggered if any of the zones are in leak or fault alarms.

### VERSATILE DESIGN

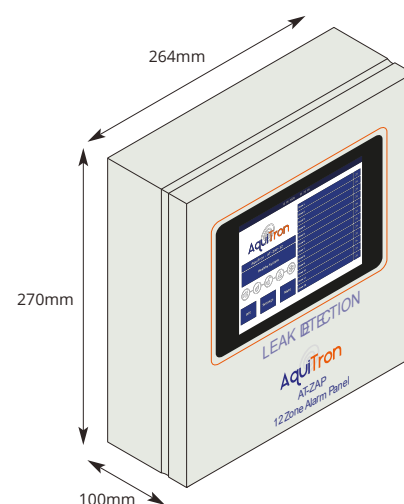
The AT-ZAP metal enclosure is designed for easy wall or surface mounting, providing a practical solution for equipment installation. With its steel construction, the enclosure offers enhanced security and protection against damage. Equipped with a high-output audible alarm, the AT-ZAP unit ensures effective alerting in the event of leak or fault detection. It facilitates seamless integration with external systems, such as Building Management Systems (BMS) or isolation valves, through volt-free relay connections. Furthermore, the system supports optional auxiliary remote alarms (AT-RAP) for remote locations, enabling alarm notification in reception areas and security rooms. Operating within a voltage range of 80-275Vac at 50/60 Hz and accepting 12Vdc  $\pm$ 20%, the AT-ZAP unit accommodates diverse electrical configurations. For uninterrupted operation, a separate power supply unit (AT-PSU-12-3 + AT-BAT) is available, providing up to 24 hours of battery back-up in the event of a power outage. Additionally, the panel features a 12/24Vdc power out accessories connection for external device supply if required.

## APPLICATIONS

The AT-ZAP system is optimally suited for extensive integration into centralized monitoring systems, enabling seamless connectivity with computer rooms or large-scale facilities. It offers advanced interfacing capabilities with control systems controlling air conditioning units, fan coil units, pumps, booster systems, and generator sets. To enhance monitoring and control capabilities, the AT-ZAP system leverages the advanced functionality of a touch screen panel. Typical applications for the AT-ZAP system include monitoring and detecting leaks around individual air-handling units, water-cooled machinery, tanks, pumps, sumps, and other critical locations. By integrating with centralized monitoring systems and offering touch screen control, the AT-ZAP system ensures efficient and comprehensive monitoring and control of potential leaks and system integrity in various industrial and commercial settings.


## TECHNICAL INFORMATION


<b>Number of Zones</b>	12
<b>Sensing Cable Compatibility</b>	All Tracetek sensing cable TT1000, TT1100, TT3000, TT5000, TT5001, TT7000
<b>Detection Probes</b>	Water detection probes (AT-PROBE-TS/M), optical sensors AT-OPSEN/RS immersion sensors (AT-350A, AT-600A), Tundish Probe (AT-TDP), Drip Tray Probe (AT-DTP). Refrigerant gas sensor (AT-SRG).
<b>Maximum Sensing Circuit</b>	300 metres of Jumper cable (per zone), 100 metres of TraceTek sensing cable (4 wire sensing) or 10 AquiTron Probes
<b>Enclosure</b>	Powder coated steel, colour RAL 9016 Matt White, lockable, IP54 (Indoor use only)
<b>Humidity</b>	5% to 95% non-condensing
<b>Power Supply</b>	80 - 275Vac @ 50/60 Hz 12Vdc $\pm$ 20%, 7 watt
<b>Accessory Power Output</b>	12/24 Vdc not exceeding 3A
<b>Relay Output</b>	12 x volt free relay, 3A 250Vac / 24Vdc. Type of SPST Configurable in software
<b>Solenoid Valve Outputs</b>	12 x 6Vdc Solenoid Valve Outputs (configurable in software) Only for use with AquiTron AT-V-P-XX or AT-V-B-XX 6Vdc Latching Valves
<b>Touch Screen</b>	7" 800x480 Resolution, Colour
<b>Cable Entry</b>	10 x 20mm, 4 x 25mm (Bottom) 2 x 20mm, 2 x 25mm (Top) 1 x 25mm, 1 x 20mm (R Side) 2x 20mm, 2 x 25mm (Back)
<b>Dimensions and Weight</b>	264mm x 270mm x 100mm Weight: 3.6kg
<b>Operating Temperature</b>	0°C - 50°C
<b>Audible Alarm</b>	90db @ 10cm



## APPROVALS

### Electromagnetic compatibility (EMC)


**Compliant with standards for emissions** EN 61000-6-3:2007+A1:2011  
**Compliant with standards for immunity** EN IEC 61000-6-1:2019


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## ORDERING INFORMATION

3905 AT-ZAP 12 Zone Touch Screen Alarm Panel

## ANCILLARY PRODUCTS

3676 AT-PSU12-3 12Vdc Power supply Unit

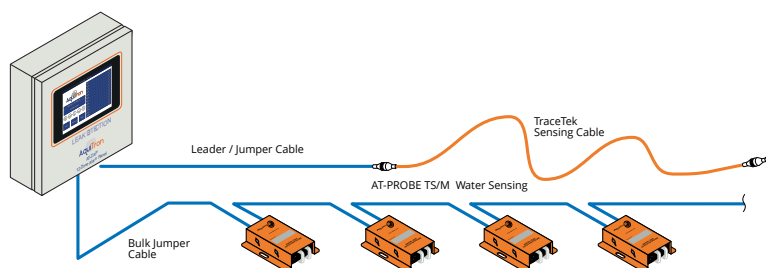
2335 AT-RAP Remote alarm panel (230Vac)

3700 AT-BAT Replacement battery, 7Ah

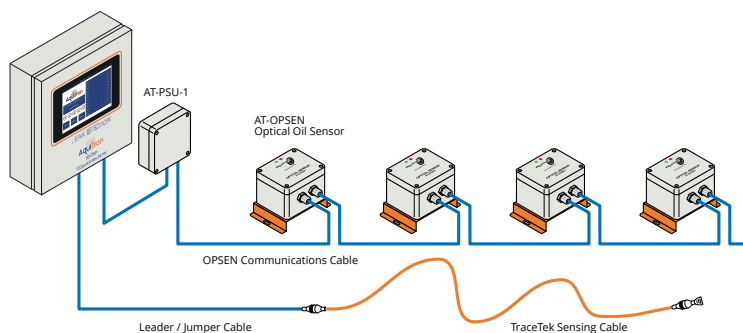
3493 AT-SD-LTE Speech Dialler (12Vdc)

## CONFIGURATION EXAMPLES

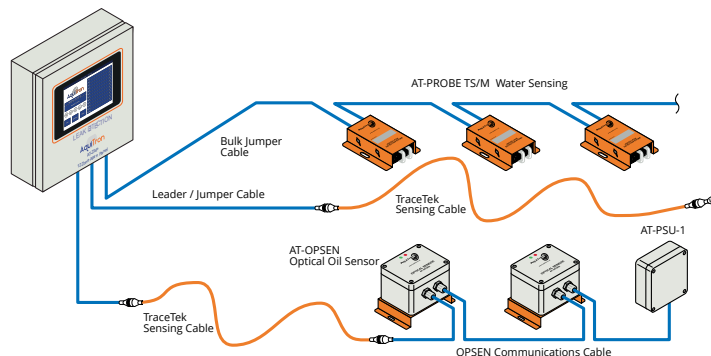
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