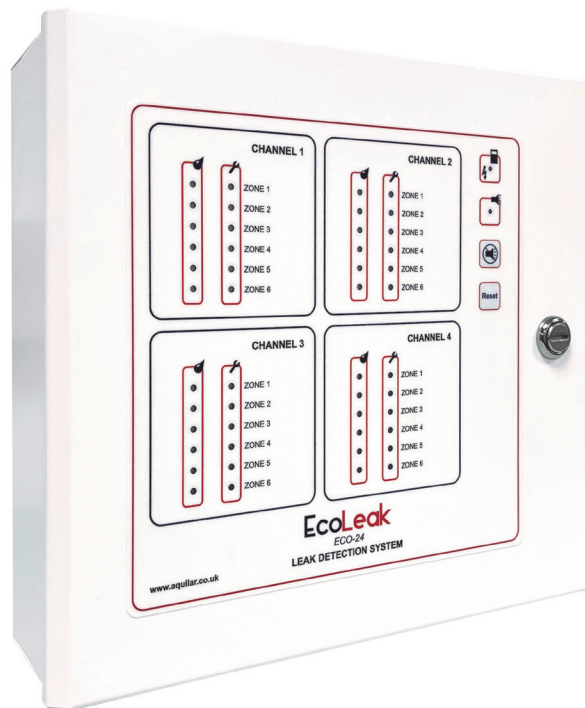


AquiTron

ECO-24

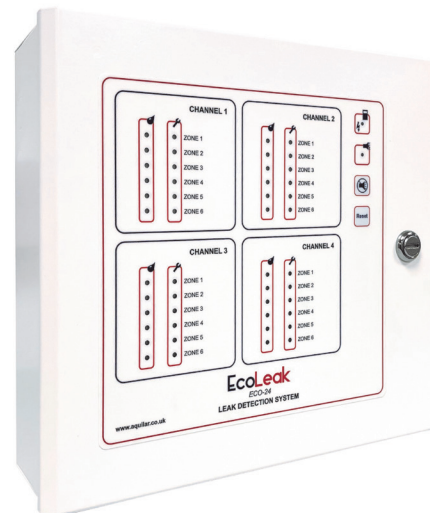
24 Zone Panel



DATA SHEET



aquilar
leak detection solutions



ECO-24

24 Zone Panel

The ECO-24 24 zone panel is an addition to the ECO range of panels. The panel is designed to utilise the ECO range of sensing devices and is also compatible with our AT-SRG refrigerant gas sensor. The panel provides both visual and audible indication when a leak alarm or a fault alarm occurs. The panel utilises a relay to connect to 3rd party equipment such as BMS, solenoid valves and other monitoring systems.

SIMPLE OPERATION

The panel features 4 channels in total, each channel with 6 individual zones. The front faceplate of the panel features LEDs indicating various statuses for each of the 24 zones. These include Power (mains or battery backup), Alarm, Leak alarm, and Cable break. When a leak or fault occurs in a zone, the corresponding LED illuminates, and an alarm sounds. To silence the alarm, the operator presses the external MUTE button. After silencing the alarm, the LED for the affected zone remains illuminated until the issue is resolved. Any system integrity loss, whether due to power interruption or a sensing circuit break, is also indicated on the panel's display. Once the cause is corrected, the panel can be reset, turning off the corresponding Fault LED. Each individual channel has got a set of relays that activates depending on the alarm status for that particular channel. Pressing the reset button resets the volt-free alarm relay contacts for any of the channels and the master relays. A network of ECO-24 panels can also be connected using a master ECO-24 panel to monitor a further 24 ECO-24 sub panels.

VERSATILE DESIGN

The ECO-24 lockable metal enclosure can be easily mounted to a wall or other flat surface. The enclosure size and the electronic design has meticulously been designed to keep the panel compact in size whilst delivering all the features that the ECO range of panels is known for. The panel provides the end user with both visual and audible alarms and also allows to easily connect and control external equipment such as isolation valves, remote diallers and BMS integration. An auxiliary remote alarm (AT-RAP) can be added to the system for remote locations such as reception areas and security rooms. When the panel is used as a refrigerant master panel, twelve 12Vdc output connections can be utilised to power the AT-SRG refrigerant sensors straight from the ECO-24, simplifying sensor installation. The ECO-24 unit operates on 230/120Vac (50/60HZ) and 12Vdc. An optional (3676 AT-PSU-12-3) power supply is required for the 12Vdc version if 24-hour operation is also required.

APPLICATIONS

The ECO-24 is ideally suited to projects where a cost effective, water or/and refrigerant leak detection solutions are required. The 24 zone panel was designed in mind with our AT-SRG refrigerant sensors, makes the panel ideal for hotel room monitoring to comply with BSEN378 central monitoring capabilities. The panel can be also utilised with a mix of water and refrigerant leak detection sensor, which makes the panel ideal for Commercial buildings: tea points, vending areas, kitchens, FCU's comms rooms, lift pits, plant rooms, tank and pump rooms. Residential Buildings: high risk areas such as kitchens, bathrooms, WC;s, utility rooms, risers and can also cover refrigerant leak detection in bedrooms.

TECHNICAL INFORMATION

Sensing cable compatibility	EcoLeak sensing cable
Detection Probes	EcoLeak Probes
Refrigerant sensor	AT-SRG refrigerant sensor
Maximum sensing circuit	30 metres sensing cable per zone or 1 x EcoLeak Probe per zone or 1 x AT-SRG refrigerant sensor per zone
Maximum jumper/leader cable length	300 meters per zone
Number of zones	24
Sensing Circuit	2 wire sensing
Network Capabilities	ECO-24 panel can monitor up to 24 no ECO-24 panels via ECO-NET
Enclosure	Powder coated steel, colour RAL 9016 Matt white, lockable
Cable Entries	26No 20mm, 8No 25mm
Dimension and weight	315 x 270 x 100mm W x H x D, 3.5Kg
Working Temperature	5°C to 40°C non-condensing
Humidity	5% to 95% non-condensing
Power supply	230/120Vac, 50/60Hz , 12Vdc, 6 watts
Battery Backup	24 Hours when used with AT-PSU-12-3
Audible Alarm	90db at 10cm
Relay Output	Number : 12 Total 4 x Channel relays for Leak 4 x Channel relays for Fault 2 x common Leak 1 x common fault 1 x common for remote Sounder (leak or fault) Type SPDT, Rated at 3A at 250Vac / 24Vdc
Status LED	Power (Mains-Green), Leak (Red), Cable break (Yellow)

ANCILLARY PRODUCTS

3676 AT-PSU-12-3 Power Supply unit

7802 AT-BAT-NP-17-12 Replacement 12Vdc 17Ah Battery

6130 ECO-BCB Branch Connector Box for Eco-Leak and AT-SRG Sensors

2335 AT-RAP Remote alarm panel (230Vac)

APPROVALS

Electromagnetic compatibility (EMC)



Compliant with standards for emissions BS EN IEC 61000-6-3:2021
Compliant with standards for immunity BS EN IEC 61000-6-1:2019

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