



Diamond Controls®

Leak Detection & Trace Heating Systems

Datasheet

WATER LEAK DETECTION



Eco-6+

Multi-Zone Alarm Panel

The Eco-6+ panel is an updated and improved version of the original Eco-6 panel, providing greater versatility and function with increased sensing capability, while keeping a compact form factor and simple to use, reliable layout. The Eco-6+ is capable of monitoring 6x individual zones of up to 160 metres of sensing cable or 10x Detection probes. The panel is designed for use with all EcoLeak and TraceTek sensing cables and sensors for detection of water and hydrocarbon liquid leaks. The Eco-6+ can also support battery back-up for up to 24 or 6 hours when using 3.2Ah or 1.2Ah option.

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Simple Operation

The LED's located on the front faceplate indicate Power, (mains or battery back- up), Alarm, Leak alarm and Cable break for each zone. In the event of a leak or fault, the alarm sounds and a LED indicates, showing the zone where the leak or fault has occurred. The operator silences the alarm by pressing the external MUTE button. Once the alarm has been silenced, the appropriate zone Leak or Cable break LED will continue to be illuminated. Once the cause has been located and corrected the panel can be reset and the corresponding LED will be extinguished. Pressing the reset button also resets the volt free alarm relay contacts. Any loss of system integrity, whether caused by an interruption of power or a break in a sensing circuit, will be indicated by the panel's display.

Versatile Design

Capable of monitoring up to six individual sensing zones. The Eco-6+ metal enclosure can be easily mounted to a wall or other flat surface. The enclosure is lockable, has an IP43 rating and a 90-decibel audible alarm. Providing both visual and audible indication for stand-alone applications. External equipment connectivity is provided by six "Leak Detected" volt free relays for connection to BMS and/or other remote monitoring systems. There is a 1 Common Leak relay, 1 Common break/fault relay and 1 sounder relay. This design has the additional Eco-Network connector allowing even more connectivity with other panels from the EcoLeak range.

The Eco-6+ panel operates on 100 to 240Vac (50/60HZ) and has facility for an optional battery back-up, providing up to 6- or 24-hours operation in the event of a mains power failure (dependent on battery option selected).

Applications

The Eco-6+ is ideally suited to projects where a cost-effective leak detection solutions is required, such as smaller commercial spaces or individual residential properties. Suitable areas include Commercial buildings: tea points, 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.

Approvals

BS EN 61000-6-1	Electromagnetic compatibility (EMC) Immunity for residential, commercial and light industrial environments 2007
BS EN 61000-6-3	Electromagnetic compatibility (EMC) Emission standard for residential, commercial and light industrial environments 2007
2006/05/EC	The Low Voltage Directive
2004/108/EC	The Electromagnetic Compatibility Directive
2011/65/EU	The Restriction of Hazardous Substances Directive



Technical Information

Power Supply	110 to 240Vac, 50-60 Hz, 5 watts
Probe Compatibility	All EcoLeak and AquiTTron probes
Detection Probes	1x EL-MPS-R probe, per zone (2 per zone using ECO-BCB) 10x AT-PROBE-TS, 10 x AT-OPSEN or upto 2 x AT-SRG per zone using ECO-BCB)
Sensing Cable Capability	All Eco-Leak and TraceTek sensing cable (TT1000, 1100, 3000, 5000 series)
Maximum Length of Sensing Cable	30 metres per zone (EcoLeak Cable) or up to 60 metres with the ECO-BCB 160 metres per zone (TraceTek Cable)
Maximum Length of Jumper Cable (AT-BJC)	300 metres per zone
Number Of Zones	6
Eco-Network Compatibility	New Eco-Network connector allowing multiple EcoLeak panels to be connected in a network and reporting back to one master EcoLeak panel for even more connectivity
Enclosure	Powder coated steel, colour RAL 9006 Matt white, lockable
Cable Entry (Knockouts)	15x 20mm, 1x 25mm. Appropriate stuffing glands should be used
Dimensions And Weight	247 x 245 x 85 WxHxD 1.9kg (not including battery)
Ingress Protection	IP43 - Indoor use only
Working Temperature Range	5°C to 40°C
Working Humidity Range	5% to 80% non-condensing
Battery Back-Up	2x battery options available 6135 3.2Ah (up to 24 Hours) 6136 1.2Ah (up to 6 hours)
Relays	x6 Volt free Leak relay contacts, x1 Common Leak relay, x1 Common break/fault relay, x1 Sounder relay, (SPDT)
Relay Rating	5A at 250Vac and 24Vdc
Accessory Connector	12Vdc powered auxiliary output for use with AT-OPSEN sensors (max 6), AT-SRG refrigerant sensors (max 12), sounder/beacons, remote alarms (max 500mA)
Status LED	Mains-Green, Battery-Yellow, Muted-Red (flashing), Leak-Red (steady), Cable break-Yellow
Audible Alarm	90dB at 10cm

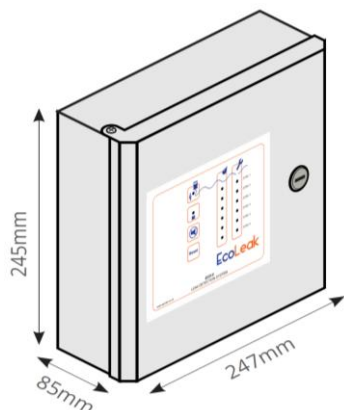


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Dimensions



Ordering Information

Catalogue Number	Product Description
6129	EcoLeak-Eco-6+ Panel - Six Zones - 110 to 240Vac, 50-60 Hz, 5 watts
6135	Eco-6+ Battery 3.2Ah
6136	Eco-6+-Battery 1.2Ah

Spares

Catalogue Number	Product Description
6132	Eco-6+ Main PCB
6133	Eco-6+ Door PCB
6134	Eco-6+ Ribbon Cable

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