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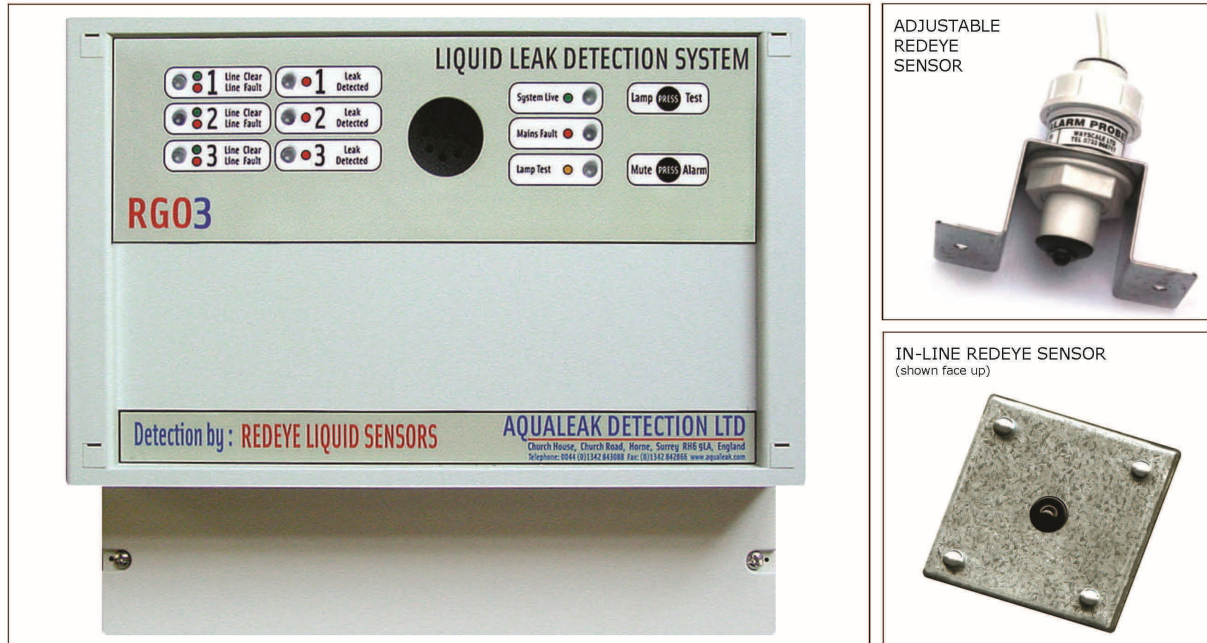
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OIL/CHEMICAL/WATER LEAK DETECTION RedEye RGO



The 'REDEYE' RGO OIL LEAK DETECTION SYSTEM has been designed to provide alarm monitoring of leaks or spillages of liquids such as Diesel and Heating Oils, as well as some chemicals and acids, and for simultaneous monitoring of Water Leaks. Monitoring is via zonally arranged RedEye 'Optoschmitt Trigger' Modules which are Opto-electronic Sensor Probes connected to the Control Unit by Signal Cable. Aqualeak RedEye Sensor Modules are permanently re-usable and are also very versatile because they detect the presence of oil, chemicals and other liquids including water. Surface Oil Detection Systems normally utilise sensors which have to self destruct in the process of providing the alarm and therefore require to be replaced immediately after any contact with oil. Conversely, conventional Water Detection systems cannot detect oil because oil is non-conductive and water detection systems require conductivity to operate. RedEye Sensors provide combined protection.

The REDEYE RGO Control System is available in three standard cabinet sizes: 1 up to 4 Zone, and 5 up to 8 zone. The RGO Control Unit is provided with individual Zone Alarm Lights and a mutable Horn which come on immediately the RedEye Optoschmitt Sensor is activated by the change of refractive index at the sensor opto-dome boundary caused by the presence of the leaking substance. The sensing and the alarm are immediate, and simultaneous with any other. Units have three levels of indication for each zone; green LINE HEALTHY, red - LINE FAULT and flashing red ALARM DETECTED. The audible alarm is activated by any abnormal condition, 'latches-on', and is silenced by pressing the mute button. When the Mute Button is pressed the System will automatically reset, requiring no further operator input, but alarm lights remain on until the condition clears. An additional light indicates MAINS FAILURE, and a LAMP TEST Light and Test Button indicate the condition of indicator lights. RGO Units can be supplied with an optional Battery Backup Pack to enable the system to continue functioning for 10 hours under full alarm conditions during a mains power failure.

The System is provided with two 'Common Alarm' no-volt changeover relays which operate on water being detected by any zone. These can be linked to the Aqualeak Remote Repeater Panel, the Aqualeak Autodial Unit, or be linked into a computer based Building Management system, or can be used to shut supplies via matched solenoid valves, or switch on sump pumps/drainage systems etc. The RGO System can also be supplied with optional Individual Zone Signalling which would provide appropriate zone alarms via individual no-volt changeover relays, and can have an optional Mains Power Fault signalling no-volt changeover relay.

The RedEye Sensor (FS4/R) is fitted to a Stainless Steel floor mounted Bracket which can be screwed to the floor via holes provided. The Sensor top can be protected by a sturdy disconnection box (FS4/RB). Height adjustment of the Sensor (adjustable between 0 and 25 mm) is by placing the sensor at the required level and tightening the adjustment ring. The FS4/RL In-Line RedEye Floor Sensor is mounted in a galvanised housing with four adjustable 'feet'. The RedEye can also be supplied for wall mounted applications (MC/R). In all cases the Sensor can be set to allow some liquid to be present without the alarm sounding (seepage within a Drip Tray) but to alarm on an increased level (leak or flood). If the Sensors are being used to monitor the floor, and to monitor for extremely small seepages, the Sensor could be located in a small routed pit dug in the floor surface and designed to form a catchment reservoir. A maximum of two RedEye Sensors can be on one zone.

The REDEYE RGO Control Unit requires to be powered from a mains power supply feed and is connected by 12V DC Signal Cables (maximum 100m) to the RedEye Sensor/s in areas being monitored. Sensors are normally hard wired on site and line monitoring is normally provided.

RGO Unit Zone Capacity : 1, 2, 3, 4, 5, 6, 7, 8 Zones

Controller Size mm ABS: 255 Wide x 215 High x 125 Deep

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