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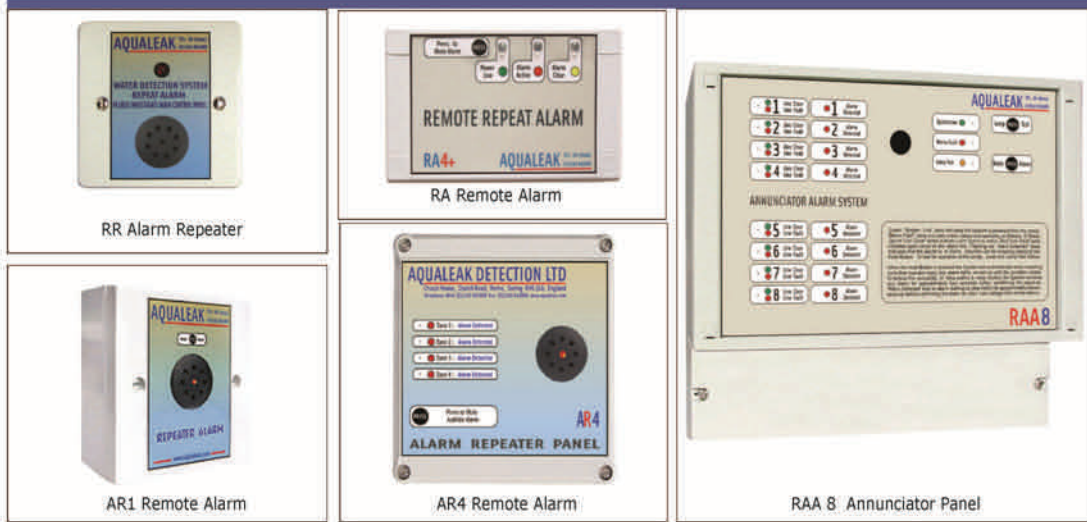
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### ALARM PANELS: RR, AR1, RA, AR4 & RAA



Aqualeak manufacture a range of Annunciator Panels which represent the latest technical developments in gathering Alarms from one or a number of remote sources in Computer Centres or other Critical Areas and which provide an Audio/Visual display in a central position, while also providing a BMS data gathering facility. These Systems can also be supplied with advanced alarm/autodial features not normally associated with this type of equipment. The range comprises of a very simple Type RR Single Zone Remote Repeater Alarm, a full stand-alone Type RA Single Zone Remote Alarm Unit, the four sector AR4 Alarm Unit, and a range of RAA Multizone Annunciator Panels from 1 to 32 zones.

The **Type RR Single Zone Alarm Repeater** is designed for applications which require a simple repeat of a single or of a 'common alarm' being indicated by the Main Alarm Unit. The RR Alarm Module comprises a single-gang surface light-switch type back-box fitted with a front plate housing an LED Light and/or a miniature Buzzer. The identification label indicates the nature of the alarm (Water Detection, Oil Detection, Overtemperature Alarm, etc). The RR Module requires to be within 25m of the Main Alarm Unit and is powered from it. Connection is by a Leader Cable carrying low volt DC. As the RR Module is simply an extension of the Main Alarm Unit, all muting or reset of the RR Module can only be done at the Main Alarm Unit. For this reason the RR Remote Repeater Alarm can also be supplied with an LED Light only. It cannot be muted at the Repeater.

The **Type AR1 Alarm Repeat Module** is a single zone miniature Repeat Alarm Unit designed to provide remote audio-visual alarms from any monitored source which is fitted with alarm signalling 'clean no-volt' relay. The AR1 Module requires to be powered from a local external mains supply and uses a low voltage signal link to connect to the monitored source. The Unit is provided with audible and visual alarms via a LED Alarm Indicator, has an internal Sounder, and also has an external Mute Button. A Signal Cable would connect the AR1 Controller to the alarm source and should be connected to 'normally open' no-volt contact in the alarm source. When contacts within the alarm source close, the light on the AR1 activates. The horn sounds, and can be muted by pressing the Mute Button, but the alarm light would remain on until the alarm clears. AR1 Module is fully self re-setting on acknowledgement of the horn and requires no further operator re-set. The horn automatically reactivates after any previous muting operation. The AR1 Module can be used to provide onward signalling when fitted with the optional 'No-Volt' output signalling relay (rated 240VAC 2amp) with 'Normally Open/Closed' change-over contacts. This can be used to link to a secondary Repeat Alarm Module or to link to a BMS System. We have a range of Annunciator Panels and a PDF Technical Data Sheet on some of them can be downloaded from our website.

The **Type RA Single Zone Remote Alarm** is designed for applications which require a single or a 'common alarm' Remote Repeat Alarm, or annunciation of an alarm from a remote sensor module with signalling facilities. The RA Module is a miniature Alarm designed as a stand-alone module powered from a local external mains or a 'low voltage' power supply. The RA is fitted with incoming terminals for linking to remote alarm sources and can accept an alarm signal from a 'clean N/V Relay' in the alarm source being monitored. When contacts within the alarm source close, the light on the RA activates. The light remains on all the time that the alarm source remains in alarm. The horn sounds and can be muted by pressing the Mute Button. RA Units are fully self re-setting on acknowledgement of the horn by pressing the mute button and require no further operator re-set. The horn automatically reactivates after any previous muting operation. The RA Module can be used to provide onward signalling when fitted with the optional 'No-Volt' output signalling relay (rated 240VAC 2amp) with 'Normally Open/Closed' change-over contacts (and can be provided with an optional relay facilities for 'Line Fault' and 'Power Failed', both rated 240VAC 2amp). This can be used to link to a secondary RR or RA single zone alarm or to link to a BMS System. The RA Module can be manufactured for either 115 or 240V AC mains supply, or 24V AC supply. Power consumption is approximately 30mA on 'run' and 50mA in 'alarm' with relay energised. A Leader Cable would connect the Controller to the alarm source and should be connected to 'normally open' no-volt contact in the alarm source being monitored.

The **Type AR4 Alarm Repeat Module** is a four zone miniature Repeat Alarm Unit designed to provide remote audio-visual alarms from any monitored source which is fitted with alarm signalling 'clean no-volt' relays. The AR4 Module requires to be powered from a local external mains supply and uses a low voltage signal link to connect to the monitored source. Each zone is provided with audible and visual alarms via zone LED Alarm Indicators, an internal Sounder and an external Mute Button. A Leader Cable would connect the Controller to the alarm source and should be connected to 'normally open' no-volt contact in the alarm source. When contacts within the alarm source close, the light on the AR4 activates. The light remains on all the time that the alarm source remains in alarm. The horn sounds, and can be muted by pressing the Mute Button. AR4 Module is fully self re-setting on acknowledgement of the horn and requires no further operator re-set. The horn automatically reactivates after any previous muting operation. The AR4 Module can be used to provide onward signalling when fitted with the optional 'No-Volt' output signalling relays (rated 240VAC 2amp) with 'Normally Open/Closed' change-over contacts. This can be used to link to secondary Repeat Alarms or to link to a BMS System.

The **Type RAA Multizone Annunciator Panels** comprise a fully self-contained Alarm Unit designed to monitor in three cabinet sizes from 1 to 8 alarms/zones, 1 to 16 alarms/zones and 1 to 32 alarms/zones, and can be made to the specific number of zones required. All units are fitted with terminals for linking to the alarms which can be no volt relays or switches. When contacts within the alarm source close the light on the RAA activates. RAA 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. RAA Units require a mains power supply and utilise a 5V signal to link to the alarm sources. RAA 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 an alarm being detected by any zone. These can be linked to a further Aqualeak Repeater Panel, the Aqualeak Autodial Units, or be linked into a Building Management system, or can be used to shut water supplies via matched solenoid valves, or switch on sump pumps/drainage systems etc. The RAA System can also be supplied with optional Individual Zone Signalling outputs which would provide appropriate zone alarms via individual no-volt changeover relays, and Mains Power fault signalling via a further no-volt changeover relay.

RR Unit Size	: 85mm H x 85mm W x 25mm D	(White Plastic Box)
RA Unit Size	: 75mm H x 125mm W x 45mm D	(Grey ABS Cabinet)
AR4 Unit Size	: 122mm H x 120mm W x 60mm D	(Grey ABS Cabinet)

**Resikom Limited**

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