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MULTIPLE ENVIRONMENTAL ALARM SYSTEMS: OTM & OGW



The OTM and OGW ranges of Electronic ENVIRONMENTAL ALARM UNITS represent the latest technical developments in combined security against environmental damage in Computer Centres, Server Rooms or other Critical Technical Areas, and are provided with advanced alarm and autodial features not normally associated with this type of equipment. The OTM System is designed to provide multi-zone or multi-level monitoring of Temperature and Humidity alarms, while the OGW System can provide combined security against damage caused by water leaks, fire, overtemperature, humidity, intruder etc, - all in one unit which can telephone out identifying which alarm has triggered. The Control System is available in three cabinet sizes: 1 to 8, 1 to 16 and 1 to 32 Zone cabinets. Smaller OTMA1 and OTMA2 Systems are also available for single or double-knock applications where Battery Backup is required. Simpler BMS Interface modules are also available. All Units can also link to non-Aqualeak alarms which have n/v alarm system pickups. All Units can also link to SoloDial and Auto-Call Automatic Telephone Dialling Units.

The OTM and OGW Units can be used as a single or multizone OVERTEMPERATURE ALARM SYSTEMS, and/or as a Low/High Temperature Alarm, or as a two-stage Overtemperature alarm (alarm and shutdown), by setting of the Sensor controls. If either limit is breached a horn sounds and a zone light illuminates on the control facia. The Control Unit can be inside or remote to the monitored area and would be linked to the Temperature Sensor/s by Leader Cable. Three types of adjustable Temperature Sensors can be used with the OGW System; Temperature Sensor with external adjustment; Tamper-proof Temperature Sensor with internal adjustment; or battery/mains operated Digital Temperature Readout Sensor. Temperature Sensors are generally rated for temperature band 0/5 to 30/35°C. HUMIDITY MONITORING is via adjustable Humidity Sensors which are connected by Leader Cable to the Control Unit. Sensors are generally rated for humidity band 30-100 %RH.

The OGW System can additionally provide WATER LEAK DETECTION monitoring via Detection Sensors which can be either Linear Sensor Cables (WDC, DCS, DCD) or Spot Pad or Probe Sensors (FS2, FS3, FS4), or any of the specialised Aqualeak Water Detection Sensors. If any Sensor detects water, a horn sounds and a zone light illuminates on the control facia. If the detection zone is some distance away, the Sensors are connected by a Leader Cable to the Control Unit. Leader Cable plug connects to the Sensor Cables and is hard wired into the Controller. Sensor Cables are available in 10m lengths and plug interconnect to maximum 50/100m. Water Detection Sensor Pads or Sensor Probes would normally be hard wired, interconnected by Leader Cable. If more than one Sensor is being used, these would need to be wired in parallel.

FIRE DETECTION would be from an independent Fire Detection Sensor linked to and powered directly from the OGW Unit by a multicore cable. This Sensor would not be connected with any other local or house fire detection system and would operating independently, possibly as a backup.

The OTM and OGW Systems can be provided with remote AUTO-CALL or SoloDial Autodial Units which are British Telecom approved analogue Autodials. The AUTO-CALL can be triggered from four separate Alarms and telephones up to ten internal or external telephone numbers (input by the on-board keyboard) to play a pre-recorded voice message (recorded by on-board microphone) advising the address of the premises and the specific nature of alarm that has been triggered: water leaks, fire, temperature, humidity, intruder etc. Acknowledgment is possible by Recipient. Battery Backup is recommended. The System can be connected to either LD or DTMF telephone systems. Being analogue, it will not operate on digital/ISDN telephone lines. The single input SoloDial Autodial telephones a 'common alarm' message to eight telephone numbers.

The OTM and OGW Units are powered from an adjacent power supply and are provided with two 'Alarm' relays which can be used for remote alarm and shutdown purposes. The detection circuits are monitored for line continuity and an optional 'Fault' relay will actuate if this is lost. Optional Battery Backup is available to take over in the event of a Mains failure. Optional individual zone alarm relays are also available to separately onward signal each alarm. When the room environmental conditions reach an alarm state, the appropriate zone light on the Controller illuminates. The horn sounds and can be muted by the Mute Button. The horn/light remain on until the Mute Button is pressed and then self resets after the alarm has cleared. The Test Button provides the 'Lamp Test' facility.

OTM & OGW Eight Zone	: 1, 2, 3, 4, 5, 6, 7, 8 Zones	Power Supply Options	: 110 or 230 VAC, SP, 50/60 Hz
Controller Size mm ABS	: 255 Wide x 215 High x 125 Deep	Output Signal Relays	: 2 x No-Volt 240V AC, 2 amp
Field Operating Voltage	: 5V AC Sensitivity Adjustable	Zone Signal Relays	: Optional No-Volt 240V AC, 2amp
Audible Alarm rating	: Steady; 93db measured at 30 cm	Battery Backup Pack	: Rechargeable 12v; 10 hours load

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