OVERTEMPERATURE ALARM SYSTEM: OTF

OTF MONITORING MODULE (top) FITTED TO A SOLODIAL AUTODIAL UNIT AND CONNECTED BY SIGNAL CABLE TO AN ADJUSTABLE DIGITAL DISPLAY
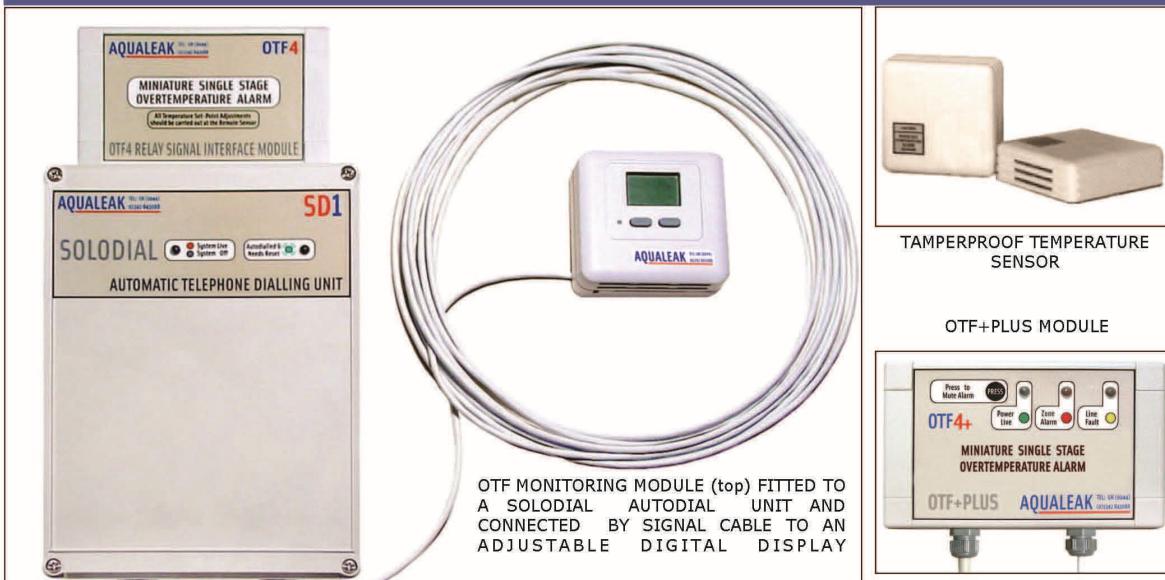
TAMPERPROOF TEMPERATURE SENSOR

OTF+PLUS MODULE

The OTF Electronic Temperature Alarm (top left) represents economical security against overtemperature damage in Computer Centres or other Critical Areas and can be supplied with advanced alarm/autodial features not normally associated with this type of equipment. The OTF is a single stage/single area Alarm comprising the Control Unit and Temperature Sensor, which are remote to each other.

For two stages of alarm we would suggest the OTF 2, where the first stage could be an 'alarm' and the second stage could be for 'shutdown'. For more complex multi-sector applications, we would suggest the RDO Multizone range providing 4, 8, 12 and 16 alarms. All Overtemperature Alarm Systems can be linked to the Aqualeak Remote Repeater Alarm Units and/or the Aqualeak self-triggering SoloDial single message or *Auto-Call* four message Automatic Telephone Dialling Units.

The OTF in its simplest form is an interface type unit which has no audio/visual alarms but provides changeover contact/s to interface to a Building Management System (BMS), or to other alarm systems. Should audio/visual alarms be required, the OTF is also available in a stand alone audio/visual alarm variant, this being the OTF+Plus Module (bottom right) which is fitted with three additional LED Indicators (advising Power On, Alarm, and Line Fault), and also an internal Horn and a Mute Button.

The OTF Controller can be manufactured to operate from the standard mains power supply or from a 12-24V AC/DC supply (which should not have the external transformer connected to earth). Power consumption is approximately 30mA with relay energised and 50mA with relay and local LED energised. A 'No-Volt' output signalling relay is provided rated at 240VAC 2amp with 'Normally Open/Closed' change-over contacts. The OTF can also be provided with optional relay facilities for 'cable fault' and 'power failed', both rated 240VAC 2amp. The 'power fault' relay would signal a loss of power to the system and the 'line fault' relay would signal a break in the continuity of the monitoring line.

The basic OTF System is comprised of the Control Unit, inside or outside the monitored area, connected by a Signal Cable to an adjustable Temperature Sensor inside the monitored area. The Temperature Sensor can be either of the 'tamper-resistant' type with internal adjustment for the setting of the desired trip temperature, or alternatively can be an optional adjustable Digital Temperature Readout Sensor which indicates the temperature at the location of the sensor. The sensor is connected by a multicore power/signal cable.

The Temperature Sensors are rated for temperature band 0 to 30°C. The temperature trip points are adjustable and when the area reaches the overtemperature level, the relay in the OTF Controller activates. On the OTF+PLUS, the light and horn also activate (horn can be muted. The alarm remains on while the sensor continues to be in alarm). The alarm will automatically reset when the temperature returns to normal.

The standard OTF system is contained in a plastic housing which can optionally be provided with IP rating. The OTF can also be supplied composite with an Auto-Dial Unit, and fitted to the outside of the AutoDial cabinet. The OTF output signalling relay would then be linked to the AutoDial and the system would be supplied pre-wired and pre-connected. The power supply for the OTF would come internally from the AutoDial Unit. The Battery Backup for the Auto-Dial, if fitted, would therefore be shared, making both units operative in the event of a power failure.

The *SoloDial* Automatic Telephone Dialling Unit has a single alarm trigger which can contact up to eight remote personnel with one alarm message. The **AUTO-CALL** Auto-Dial Unit has four separate triggers which can contact up to ten remote personnel and play a voice message relating to the specific alarm which has been triggered. Alternatively, the AUTO-CALL can send SMS *Text* messages to mobile telephones.

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