

Specification for Oil Leak Detection system

LEAK DETECTION SYSTEM

1. General requirement

To provide an Oil leak detection and locating system to give the earliest warning of a leak

- *Oil Storage Tanks, Oil Lines etc) as detailed in the schedule and drawings.*

The system shall

- *Provide an alarm giving an accurate location of a leak at a specific point or zone.*

OR

- *Provide a general alarm indicating a leak has occurred somewhere/ anywhere within the detection network area.*

The system shall comprise a network of sensing devices connected to a *locally / remotely located* control panel(s) as indicated in the schedule and drawings. The sensing devices should be *reusable oil sensing probe/point devices* It is recognised that liquid must touch a sensing device for an alarm to be activated.

The leak detection system will continuously monitor the network of sensing devices and give an alarm in the event of detecting a leak or system/sensing device malfunction, damage or disconnection.

A control panel will be capable of monitoring up to 500 *no* point / probe sensors.

The number of sensing devices and their installation disposition shall be

- *as detailed in the schedule and drawings*
- *as recommended by the specialist sub-contractor or supplier in accordance with the general requirement set down in the schedule and drawings*

The system shall be capable of

- *reporting the location of a leak to a sufficiently accurate position to enable the operator to locate and identify the activated individual (or group of) probe device(s) quickly and accurately.*
- *reporting the presence of leak in within a general area. **

A control panel shall be capable of providing the level of accuracy of leak detection required. This may be achieved by applying a contiguous number of separately reporting zones of appropriate length or by a system which will report the position of a leak as a measurement of metres along the defined route of a sensor. Wherever possible the allocation and installation of sensor lengths or zones shall be arranged to coincide with defined areas or "land-marks", individual rooms, partition walls or other easily identifiable features. This is to facilitate speedy and positive leak location.

Andel Floodline Leak Detection Specification

Volt free contact changeover relay outputs will be provided for connection to BMS or other remote alarm or monitoring system. As a minimum these will include:- **Common Leak, Common System Fault, Mains Fail/All Fail**

The option for individual zone outputs should also be available.

Serial connections (via RS232, RS485 or similar) will be available for communication of system status and all alarm conditions to the BMS.

4.2 Operation

The control panel should be mains operated (220/230VAC 50Hz) and must include a trickle charged sealed lead-acid stand-by battery capable of maintaining the system for 24 hours in quiet monitoring mode.

4.3 Sensitivity

The sensitivity of the system must be adjustable to suit particular site conditions.

4.5 Conformity

It is a statutory obligation that the system must conform to relevant EU regulations particularly the EMC and Low Voltage Directives and be "CE" marked accordingly.

5. Manufacturer

The water leak detection system shall be as manufactured by:



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