

## Refrigerant Leak Monitor

The RLM offers intelligent, reliable and accurate gas monitoring for all HCFC's, HFC's and ammonia. Its high sensitivity and selectivity ensures gas leaks are detected at the earliest opportunity. Leading UK companies have installed the RLM for safety, economical and environmental reasons. With the guarantee of critical reliability and effectiveness provided by the Refrigerant Leak Monitors detection technology, the RLM is usually installed in multiple unit configurations.

### Features

- Detects all HCFC's, HFC's and ammonia.
- Monitors up to 16 zones.
- Simple 5 key user interface with password protection.
- Individual zone naming and alarm thresholds.
- Optional fail-safe alarm operation
- Self-diagnostics detect system faults & dirty filters
- Highly selective to minimise nuisance alarms.
- Historic data & alarm logs

### Zone Based Operation

A high capacity vacuum pump sequentially samples air from up to 16 zones through 6mm O/D colour-coded pipe work. The air samples pass through a valve manifold and water trap arrangement before entering the sample cell where the analysis is conducted. The result of the analysis is displayed on the backlit LCD screen together with the time/date and name assigned to the zone. Previous measurements are retained on the RLM enabling technicians to identify leak patterns and rectify problems more easily.

### High Accuracy

Because the Refrigerant Leak Monitor searches for the unique infrared 'signature' of the refrigerant, nuisance alarms from contaminant gases are eliminated. The dual channel Non-dispersive Infrared techniques employed in the RLM are commonly used in automotive and medical applications where accuracy and reliability are essential. This technology enables gas concentrations in Parts Per Million levels to be accurately measured ensuring that leaks are detected early and before any appreciable loss of gas occurs with the resultant safety and financial implications.

### Alarms

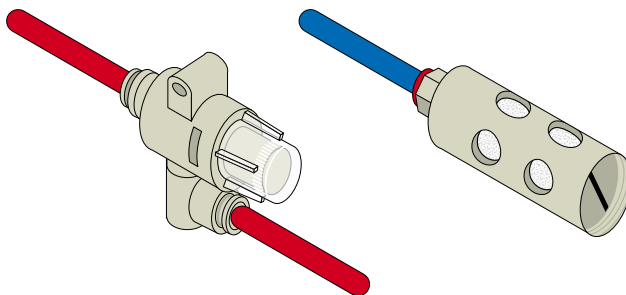
Each zone can be assigned two alarm thresholds. When either the leak alarm level or the spill alarm level is exceeded the appropriate LED is illuminated on the front of the panel and details are recorded in the panel's alarm log. Each record identifies the date/time of the fault, the concentration recorded and the name of the zone. The panel also monitors flow rates from each zone on a constant basis and raises an alarm in the event that the flow becomes restricted.

### Interfaces

The RLM has two pairs of volt-free alarm contacts, which can be configured to operate in the event of a fault, leak or spill condition. In addition the unit has an RS 485 serial port for connection to remote display/management systems. There are also sixteen separate 0-5 volt analogue outputs, which represent the last measured concentration from each zone. The various outputs can be linked to a wide range of remote alarms, BMS and environmental monitoring systems and factory automation plant.

### Self - Diagnostics

Every 24-hours the system conducts a self-test to verify both the software and mechanical operations of the unit. Any problems relating to the operating system or leaks within the internal plumbing will be determined and details entered in the alarm log for immediate action.



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