

## F-Gas Environmental Leak Monitoring System Datasheet

With the introduction of the f-gas regulations to prevent and reduce emissions of fluorinated greenhouse gases covered by the Kyoto Protocol, OX-AN have launched the Environmental Leak Monitoring System.

The system provides audible and visual warnings of the presence of fluorinated greenhouse gases within a specified area in buildings around evaporators, chiller cabinet's etc, and outside plant including condensers and recovery systems.

A key feature of the system is the data logging of events for companies and organisations to be able to provide documented evidence of good practice in the operation, charging, discharging and maintenance of refrigeration systems, heat pumps and other systems covered by the F-gas regulations with key elements of the regulations introduced on the 4th July 2007.



The system is intended for use on commercial and industrial applications with the control system fitted in a plant room or other centralised location, the sensors specific to the gas used on site are hard wired back on 4-20mA loops, warning devices such as beacons and sounders are wired back to the central control panel in mains cabling.

### Features of OX-AN<sup>®</sup> F-Gas Monitor:

- Up to 4 × USB based signal capture modules (total 32 sensors)
- Up to 4 × USB based relay modules (total 24 relays)
- .Net based software using Windows XP native USB drivers
- 1024×768 Touchscreen interface
- Individual sensor inputs software configurable for R-134A and other gases
- 4 configurable alarm levels
- 32 configurable Output Groups
- Sound Alarms
- Relay specific Mute
- Sensor specific Isolate
- Sensor value logging
- Alarm logging



OX-AN F-Gas Environmental Leak Detection Monitors are typically configured prior to delivery and commissioning.

### PC Software

The OX-AN F-Gas Environmental Leak Detection Monitoring software is designed to run on Windows XP system (SP2) with .Net framework v3.0 which is installed on the panel PC that supports the signal capture and relay modules.

**The software comprises:**

- PC based application
- PC XML configuration files
- Signal Board PIC18F2550 Firmware
- Relay Board PIC18F2550 Firmware

Sensor	Location	Alarm Level 1	Alarm Level 2	Alarm Level 3	Alarm Level 4	Value [ppm]	Isolated
1	Sensor 1 location	300	400	800	1200	31	
2	Sensor 2 location	300	400	800	1200	31	
3	Sensor 3 location	300	400	800	1200	25	
4	Sensor 4 location	300	400	800	1200	28	
5	Sensor 5 location	300	400	800	1200	25	
6	Main Complex	2000	2000	800	1200	81	
7	Sensor 7 location	300	400	800	1200	22	
8	Sensor 8 location	300	400	800	1200	19	
9	Sensor 9 location	300	400	800	1200	25	
10	Sensor 10 location	300	400	800	1200	28	
11	Sensor 11 location	300	400	800	1200	68	
14	Sensor 14 location	300	400	800	1200	93	
15	Sensor 15 location	300	400	800	1200	65	
16	Sensor 16 location	300	400	800	1200	62	
12	Sensor 12 location	20.5	20	19	18	22.01%	

The monitoring screen above below shows a system set up to monitor 15 channels for R134A and 2 channels for oxygen depletion, during normal running the monitoring screen displays the location text, alarm levels, sensor value and isolate status for both R-134a and O2 sensors. This is the normal viewing screen.

For more system details download the user manual from the resources page on our website

[See price list for order codes](#)

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