

Floodline RGD1601 Refrigerant Gas Detector



The Floodline RGD1601 gas detector can be used as either a stand-alone gas sensor or connected to Floodline alarm panel and can be powered by 110-230Vac or 12-24Vdc. The Floodline RGD1601 is intended for VRV air conditioning systems and refrigeration compressor packs. The unit can be calibrated to detect one of either R134a, R410A, R407c or R404a gases.

To comply with general requirements of the H.S.E Occupational Exposure Limits, the sensitivity control is set (unless specified otherwise) to 1000ppm gas to air mixture. The unit is fitted with a volt-free single pole double throw change over relay for connection to the Floodline panel or other monitoring systems and has visual and audible alarms and operating modes.

Applications:

VRV Air Conditioning systems
Refrigeration compressor packs
Machine/Plant Rooms
A/C Service Tunnels
Hotel Bedrooms
DX Split Units

Detection:

Constant monitoring of the area for any build up of chosen refrigerant gases above a preset level – When a leak above the preset levels is detected, audio/visual warnings are given.

Audible & visual alarms also at central Floodline Control Panel.

Construction:

ABS Surface Box or Brushed Chrome, Flush-mounted standard 2-gang front plate

Dimensions:

Surface: H: 90mm x W: 160mm x D: 50mm
Flush: H: 88mm x 148mm x D: 45mm

Fixing:

Mounted at suitable height based on occupancy of room being monitored & refrigerant gas being detected.

Operation:

The Floodline RGD1601 can be preset to different modes of operation :

Operational Mode:

During normal operation, and after the 10 minute warm-up process, the sensor unit will calculate the ambient refrigerant gas concentration and adjust the alarm threshold according to the adjustable sensitivity.

The behaviour of the unit when a leak is detected can be altered to suit the application. The sounding of the buzzer when the unit goes into alarm can be enabled or disabled. Also, whether the unit deactivates the alarm when it no longer detects a gas concentration higher than the calibrated threshold can be enabled and disabled.

Specification:

Gas Selection:	R410a R407c R404a R134a
Supply:	3Watts at 12-24VDC OR 110-230VAC
Relay Outputs:	SPCO (5Amps @ 230VAC)
Indicators:	3mm quad-colour LED
Sounder:	85dB piezo
Working Temp:	0-40°C
Connections:	5mm pitch screw terminals with quick release. Maximum cable size 2.5mm ²



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